

# San Juan Bay and Estuary Study: Water Quality Data Collection

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# San Juan Bay and Estuary Study: Water Quality Data Collection

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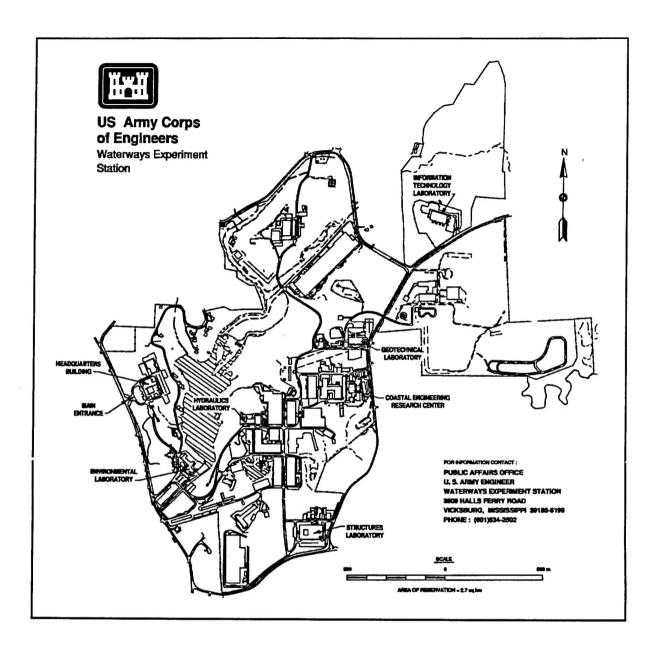
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#### **Preface**

Limnological studies of the San Juan Bay and Estuary, Puerto Rico, were conducted during the period June through September 1995. These studies were part of the United States Environmental Protection Agency's (USEPA) National Estuary Program. The study was managed by the U.S. Army Engineer District, Jacksonville, and was sponsored by the USEPA Region II through San Juan Bay and Estuary Program (SJBEP), San Juan, Puerto Rico. Mr. A. J. Salem was Chief, Planning Division, Jacksonville District. Ms. Susan Osofsky was Project Officer, USEPA, and Ms. Tere Rodriquez was Director, SJBEP.

Dr. Mark S. Dortch, Chief, Water Quality and Contaminant Modeling Branch, Environmental Processes and Effects Division (EPED), Environmental Laboratory (EL), U.S. Army Engineer Waterways Experiment Station (WES), was the study manager. The Principal Investigator for work reported here was Dr. Robert H. Kennedy, Ecosystem Processes and Effects Branch (EPEB), EL. The report was prepared by Dr. Kennedy, Mr. William A. Boyd, and Dr. John J. Hains, EPEB; Messrs. John Lemons and Frank Herrmann, DynTel Corporation, Vicksburg, MS; Mr. David Honnell and Dr. Patrick Howell, AScI Corporation, McLean, VA; Dr. Carl Way and Mr. Felix Fernandez, Barry A. Vittor and Associates, Mobile, AL; Dr. Tina Miller-Way, University of Mobile, Mobile, AL; and Dr. Robert R. Twilley, University of Southwestern Louisiana, Lafayette, LA.

This investigation was performed under the supervision of Dr. John W. Keeley, Director, EL; Mr. Donald L. Robey, Chief, EPED; and Dr. Richard E. Price, Chief, EPEB.

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#### 1 Introduction

San Juan, Puerto Rico, a metropolitan area with a population of approximately one million people, is located on the northeastern coast of the island of Puerto Rico. The metropolitan area encompasses five municipalities, all of which are located within the San Juan Bay and Estuary (SJBE) system. The SBJE consists of five major water bodies (see Figure 1): Bahia de San Juan, Laguna del Condado, Laguna San Jose, Laguna la Torrecilla, and Laguna de Piñones. The bay and lagoons are connected by narrow channels. Laguna San Jose (San Jose Lagoon), the most interior of the lagoons, is characterized by poor flushing.

Much of the SBJE system has been significantly modified by dredging, sand mining, channelization, and sedimentation. In addition, anthropogenic influences from metropolitan areas of San Juan markedly impact water quality. Water quality problems of concern include high concentrations of coliform bacteria, low dissolved oxygen concentrations, eutrophication, and the presence of toxic substances.

The Environmental Quality Board of Puerto Rico obtained funding from the U.S. Environmental Protection Agency's National Estuaries Program to study possible alternatives to improve circulation and water quality in the SJBE. A hydrodynamic and water quality modeling study was subsequently undertaken to evaluate proposed remediation alternatives. The study includes application of numerical hydrodynamic and water quality models, and the collection of supporting data describing water quality and hydrodynamics.

This report describes the water quality data collection program and presents resulting data. The data collection program was designed to estimate material loadings from selected tributary streams, estimate sediment/water interactions, and characterize water column conditions for selected open-water portions of the SJBE system. Data collection efforts included (1) tributary sampling, (2) water column sampling, (3) fecal coliform bacteria enumeration, and (4) sediment/water material flux measurement.

## 2 Field Sampling Procedures

#### **Tributary Sampling**

Tributaries were monitored to characterize material loadings and to establish water quality model boundary conditions. Initial efforts involved weekly monitoring of 8 tributary streams (Table 1; Figure 2). A ninth stream, Rio Puerto Nuevo, was not sampled due to the backwater nature of this site. The study design required weekly monitoring for a period of 8 weeks. Initial sample collection began July 5, 1995.

In situ measurements (temperature, dissolved oxygen, specific conductance, and pH) were taken from a representative location within the stream cross-section. Grab water samples were also collected from a representative location within the stream cross-section.

Stream discharge (m³/sec) was estimated for three tributaries during each routine sampling event using manual stream gauging methods (World Meteorological Organization 1980). Since successive sampling events included the gaging of different tributaries, each tributary was to be gaged at least twice during the study period. Daily flow measurements for Rio Piedras were obtained from the U.S. Geological Survey gage at Hato Rey (USGS Station Number 50049100).

Identification of the potential impacts of storm-runoff events on water and material loads led to a redesign of the tributary sampling program. The routine weekly monitoring of all tributaries was terminated after the first two sampling events (July 5 and 17, 1995) and the remaining sampling effort was directed at collection of storm runoff on two tributaries, Juan Mendez and Rio Piedras. The sampling site on Juan Mendez was located at Central Avenue; the sampling site on Rio Piedras was located approximately 1 km upstream from the USGS gage at Hato Rey.

Storm event sampling involved collection and storage of multiple samples throughout the storm hydrograph. Following completion of sampling, a subset of samples was saved for subsequent analyses. Samples were chosen so as to adequately represent both the rising and falling portion of the hydrograph.

#### Water Column Sampling

Water quality samples were collected and *in situ* measurements taken five times at 25 stations distributed throughout the SJBE system (Figure 1; Table 2). All sample locations were determined using a Magellan Promark X Global Positioning System. The five sampling events occurred at intervals of approximately two weeks over a period of eight weeks. Because of logistical considerations, different portions of the system were sampled on consecutive days. Sampling event duration was 3-4 days.

In situ measurements included temperature, pH, specific conductivity or salinity, dissolved oxygen (DO) concentration, Secchi Disk transparency, and water column depth. Temperature, pH, conductivity/salinity, and DO measurements were taken throughout the water column at 1-m intervals at locations having depths less than 10 meters. For stations with depths greater than 10 meters, in situ measurements were taken at 2-m intervals. Near surface (0.5 m depth), mid-depth, and near bottom (0.5 m up from bottom) in situ measurements were taken at the offshore sampling stations.

Water samples were collected at all sampling stations. Discrete samples were taken at mid-depth for all stations with depths less than 3 meters and near-surface (0.5 m) and near-bottom (0.5 m up from bottom) for all stations with depths greater than 3 meters.

#### **Diel Sampling**

Diel *in situ* measurements of DO, temperature, pH, specific conductivity, and turbidity were recorded at 15-minute intervals at two locations in San Jose Lagoon during the period 1200 hr, 23 August 1995, to 1745 hr, 24 August 1995. A recording Hydrolab sonde was deployed at a depth of 1.0 m using an anchor-buoy system at a central location near the highway bridge. A second recording Hydrolab sonde was secured at a depth 0.5 m at a boat dock located along the south shore of the lagoon. Due to equipment failure, data collection at the dock site was terminated at 0915 hr, 24 August 1995. Equipment was calibrated prior to and following deployment. Data were downloaded to a notebook computer following equipment retrieval.

#### Sediment-Water Flux Sampling

Core samples were collected and returned to a field laboratory for incubation and analysis. Intact sediment-water microcosms were collected at eight stations (Figure 3; Table 3) during the period 10-14 August, 1995, by SCUBA divers. At each site, three 5-inch diameter acrylic sample cores were collected. Difficulties in obtaining samples were encountered at stations in San Jose Lagoon due to the presence of large rafts of bivalves, identified as

*Perna perna* (Per. Comm., D. Sheldon, Barry A. Vittor and Associates, Mobile, AL). Locations of these stations were adjusted to avoid bivalve shells.

Approximately 70 liters of overlying water were also collected using a submersible pump. Care was taken to minimize aeration during sample collection and transport. A light profile was recorded using a LiCor light meter at the two stations (SJW5/6 and PL9/10) for which coincident light and dark incubations were to be performed.

# 3 Sample Collection, Handling and Preservation Procedures

#### Water Samples

Water samples were obtained at all stations using a bilge pump. Samples were obtained from mid-depth for all open-water stations with depths less than three meters, and near-surface (0.5 m) and near-bottom (0.5 m up from bottom) for all stations with depths greater than three meters.

Water was initially retained in rinsed, 1-liter polyethylene (PPE) bottles (3 bottles/station), placed on ice, and stored in the dark. An appropriate fraction of each sample was filtered (0.45-\mu membrane) and stored in PPE and amber glass bottles within 6 hours of collection. The remaining unfiltered fraction was stored in PPE and amber glass bottles. Samples for selected analyses were acidified with 1:1 H<sub>2</sub>SO<sub>4</sub> to pH<2. Sample water were filtered (Gelman A/E) for pigment analyses; filter pads were stored in polystyrene petri dishes and frozen. All samples were stored in coolers, refrigerated with ice packs, and shipped via overnight delivery to the analytical laboratories. Sample handling and preservation procedures for water samples are presented in Table 4.

#### **Fecal Coliform Bacteria Samples**

Grab samples for fecal coliform bacteria enumeration were obtained at all water column and tributary stations. Samples were collected in 300-ml whirl-pak containers and immediately placed on ice in the dark. Samples were delivered to Environmental Quality Laboratory, San Juan, Puerto Rico, for bacterial enumeration within 6 hours of collection.

#### **Sediment-Water Flux Samples**

Care was taken to ensure that approximately 2 L of overlying water was retained in each core following collection. Cores were capped, placed in coolers to minimize light exposure and temperature changes, and returned to the field laboratory.

All water samples collected coincident with core collection were stored in cubitainers for transport to the laboratory in coolers. Samples collected in the laboratory during incubations were handled and preserved using procedures identified in Table 5.

## 4 Analytical Procedures

#### Water Samples

Laboratory equipment and instruments used for analyses included a Water's HPLC System with an anion column, a Shimadzu UV160 double-beam spectrophotometer, a Shimadzu Carbon Analyzer, an Orion 940 expandable ion analyzer in conjunction with specific-ion-electrode methods, an OIC bench top centrifuge, a Lindberg Blue M Model OV480A drying oven, and various analytical electronic balances. All equipment and instruments were calibrated prior to use, and checked periodically for baseline drift.

Chemical and physical analyses follows standard methods (American Public Health Association 1992); pigment analyses followed methods described by Strickland and Parsons (1972). Specific analytical procedures are listed in Table 6.

Quality Control (QC) included the analysis of 10% of the total number of samples collected. In addition, for each collection set analyzed, blanks, blank spikes and sample spikes were analyzed. If erroneous results occurred with the QC samples, analysis was halted until proper corrective action was taken. When necessary, samples were reanalyzed.

#### **Fecal Coliform Bacteria Enumeration**

Fecal coliform bacteria enumeration was performed by the membrane filtration method in accordance with standard methods (American Public Health Association 1992).

#### Sediment-Water Flux Measurements

Sediment-water material fluxes were measured using short term incubations of intact core samples. Fluxes were estimated based on changes in DO, ammonia, nitrate-nitrite, and phosphate concentrations of water overlying each

core. Specific analytical procedures for estimating these variables are listed in Table 7.

Cores were carefully flushed with approximately 20 L of overlying water in the laboratory. Flushing rates were such that the sediment-water interface remained undisturbed. The cores were then be capped and the overlying water sampled for chemical analyses. A water-filled core (blank) was used to correct for water column changes not related to sediment-water exchanges. Sampling of the cores followed a standard static (batch) protocol with 5 samples equally spaced in time over the 6-hour incubation period.

Incubations were conducted in a circulating water bath in the dark with the exception of samples collected at SJW5/6 and PL9/10, which were also incubated in the light. Light levels for the latter incubations were adjusted to ambient levels (measured in the field at the time of sample collection) using multiple layers of shade cloth. Light levels were continuously monitored during incubation using a LiCor light meter with the underwater sensor located in the incubation chamber.

Thirty-milliliter samples were collected from the overlying water column in each core prior to incubation and at equal intervals throughout the incubation for chemical analyses. An initial 60-ml sample was also withdrawn for determination of dissolved oxygen. Withdrawn water was replaced with an equal volume of bottom water collected at each corresponding sample site.

Flux rates were determined using a regression approach in which the slope of the change in concentration versus time estimates the flux rate. The slope from the "blank" core was subtracted from the slope of each core. The flux, in umols/m<sup>2</sup>/h was calculated as:

```
(slope - blank slope)(umols/L/min)*60(min/h)*depth(m)*1000(L/m³) where:

depth = [total water volume in core (ml)/core area (cm²)]/<math>100(cm/m)
```

If the concentration change during the incubation period was less than 2 times the standard deviation of analyses of standards, the flux was reported as zero. If the concentration was greater than 2 times the standard deviation but the regression was not statistically significant, the flux was reported as non-interpretable. Individual fluxes were calculated for each of three replicate cores and then averaged to yield a mean flux estimate.

## 5 Data Management

Field and laboratory data were reviewed for completeness and entered into a database. Data files were reviewed by the collecting or analyzing investigator to insure accuracy. Data files were created and stored in three formats; Excel spread sheets, comma-delimited ASCII text and SAS datasets. Resulting data are presented in the following appendices:

Appendix A Sample station locations

Appendix B In situ data for tributary and open-water sampling stations

Appendix C Water chemistry and biological data for tributary and open-water sampling stations

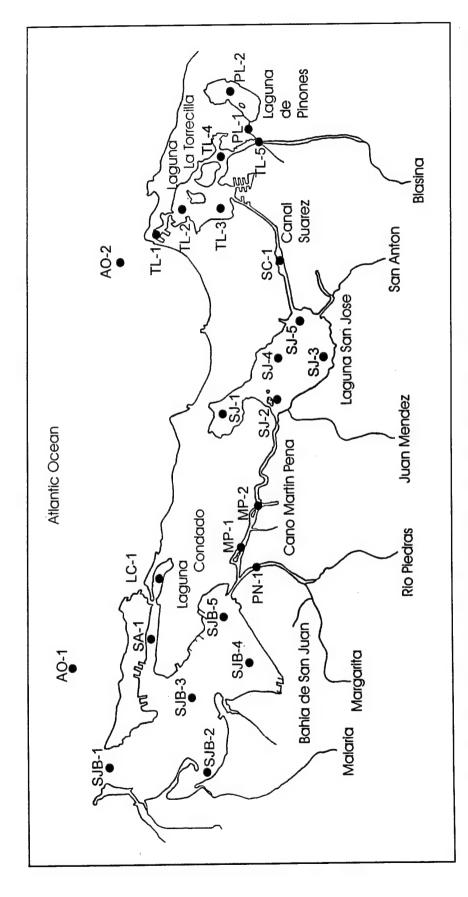
Appendix D Sediment-water flux data

Appendix E QA/QC data for laboratory analyses

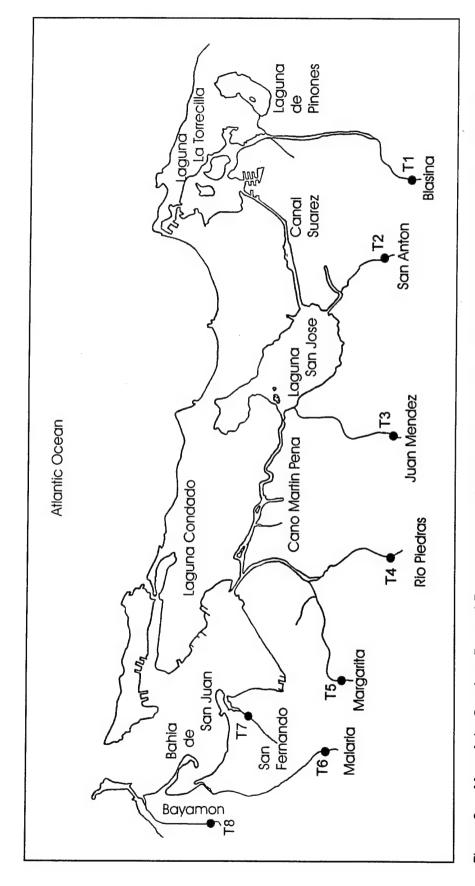
Appendix F Glossary of variable names

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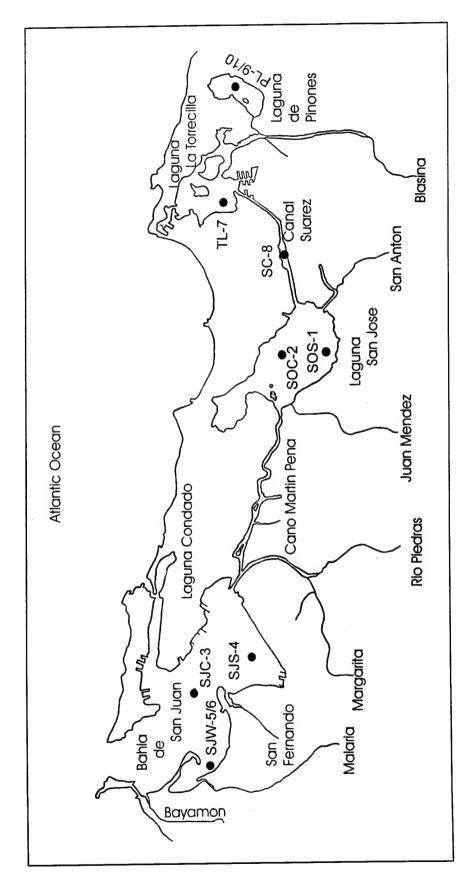
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Map of the San Juan Bay and Estuary system, San Juan, Puerto Rico. Closed circles indicate location of open-water sampling locations Figure 1.



Map of the San Juan Bay and Estuary system, San Juan, Puerto Rico. Closed circles indicate location of tributary water quality sampling locations Figure 2.



Map of the San Juan Bay and Estuary system, San Juan, Puerto Rico. Closed circles indicate location of sediment-water flux sampling locations Figure 3.

Table Tribut	1. ary Water Quality Samplir	ng Locations
ID	Tributary Name	Location
T1	Blasina Canal	Hwy. 3 (65 De Infanteria Ave.), next to Carolina Regional Hospital
T2	Quebrada San Anton	Bustamante Street and Garcilaso Street; Carolina
Т3	Quebrada Juan Mendez	Hwy. 17 (Piñero Ave.); near Balbosa Ave. Exit, Rio Piedras
T4	Rio Piedras Pascasio Sancerrit Bridge, Notre Dame Street, Rio Piedras	
T5	Quebrada Margarita	Ebano Street; Guaynabo
Т6	Malaria Canal	Hwy. 28; Pueblo Viejo; by Fort. Buchanan; Guaynabo
Т7	Quebrada San Fernando	Discharge pipe onto San Juan Bay; Cataño
Т8	Rio de Bayamon	Hwy. 869; Cataño

Table 2 Water	Column Sampling Locations
ID	Station Description
A01	Atlantic Ocean offshore, west
A02	Atlantic Ocean offshore, east
LC1	Mid Laguna del Condado
MP1	Martin Pena Canal, west end, near highway 22 bridge
MP2	Martin Pena Canal, mid-length, near highway 1 bridge
PL1	Mid-length of canal to Pinones Lagoon
PL2	Central Pinones Lagoon
PN1	Rio Puerto Nuevo Channel
SA1	Mid San Antonio Canal near cruise ship berths
SC1	Suarez Canal, midlength
SJ1	Mid Los Corozos Lagoon
SJ2	West San Jose Lagoon off of Martin Pena Canal
SJ3	South San Jose Lagoon
SJ4	Central San Jose Lagoon
SJ5	East San Jose Lagoon off of Suarez Canal
SJB1	Northwestern San Juan Bay, in channel inside bay entrance
SJB2	Northwestern San Juan Bay, between Bayview and man-made peninsula
SJB3 .	Central, mid-bay of San Juan Bay
SJB4	Southeastern San Juan Bay, mid-bay south of the airport
SJB5	San Juan Bay near mouth of Martin Pena Canal
TL1	Torrecilla Lagoon inside ocean outlet
TL2	Torrecilla Lagoon northwest of Punta Larga
TL3	Southwest Torrecilla Lagoon
TL4	Torrecilla Lagoon southeast of Punta Mosquitos
TL5	Mouth of Blasina Canal

•

Table 3. Sediment	t-water Flux Sampling Stations
ID	Station Description
SJC3	Central San Juan Bay
SJS4	Southeastern San Juan Bay, mid-bay south of the airport
SJW5/6	Western San Juan Bay
SOS1	South San Jose Lagoon
SOC2	Central San Jose Lagoon
SC8	Suarez Canal, midlength
TL7	Southwest Torrecilla Lagoon
PL9/10	Central Pinones Lagoon

Table 4. Water Sample Handling and Pr	le Handling a	and Preservation	on		
Sample Matrix	Sample Volume	Sample Container	Analyte	Sample Handling and Preservation	Max. Holding Time
Water	In situ	In situ	Temperature	None	None
Water	In situ	In situ	Hd	None	None
Water	In situ	In situ	Dissolved Oxygen	None	None
Water	In situ	In situ	Conductivity	None	None
Water	250 mL	PPE	Ammonia-N	H <sub>2</sub> SO₄ to pH<2; refrigerate	48 hours
Water	250 mL	PPE	Nitrate-N	Filter 0.45 $\mu$ ; refrigerate	48 hours
Water	250 mL	PPE	TKN	H₂SO₄ to pH<2; refrigerate	7 days
Water	250 mL	PPE	Dissolved TKN	Filter 0.45μ; H <sub>2</sub> SO <sub>4</sub> to pH<2; refrigerate	48 hours
Water	250 mL	PPE	Total Phosphorus	H₂SO₄ to pH<2; refrigerate	48 hours
Water	250 mL	PPE	Total Dissolved Phosphorus	Filter 0.45 $\mu$ ; H $_2$ SO $_4$ to pH $<$ 2; refrigerate	48 hours
Water	250 mL	PPE	Total Inorganic Phosphorus	H₂SO₄ to pH<2; refrigerate	48 hours
Water	250 mL	PPE	Dissolved Inorganic Phosphorus	Filter 0.45 $\mu$ ; H $_2$ SO $_4$ to pH $<$ 2; refrigerate	48 hours
					(Continued)

Table 4. (Concluded)	ncluded)				
Sample Matrix	Sample Volume	Sample Container	Analyte	Sample Handling and Preservation	Max. Holding Time
Water	500 mL	BPE	Volatile Suspended Solids	Refrigerate	2-7 days
Water	500 mL	3dd	Total Suspended Solids	Refrigerate	2-7 days
Water	500 mL	Amber Glass	Total Organic Carbon	Refrigerate	48 hours
Water	500 mL	Amber Glass	Dissolved Organic Carbon	Filter PC glass filter; refrigerate	48 hours
Water	1000 mL	3dd	Chlorophyll a	Refrigerate; dark	30 days
Water	300 mL	Sterile Whirlpacks	Fecal Coliform	Refrigerate	24 hours
Water	50 mL	Field Analysis	Sulfide*	None	None

Table 5.	water Flux	Sample Handli	Table 5. Sediment-water Flux Sample Handling and Preservation		
Sample Matrix	Sample Volume	Sample Container	Analyte	Max. Holding Time	Preservation Method
Water	5 ml	AA vial	Ammonia-N	60 days	Freeze
Water	5 ml	AA vial	Nitrate-N	60 days	Freeze
Water	5 ml	AA vial	Nitrite-N	60 days	Freeze
Water	5 ml	AA vial	Ortho Phosphate	60 days	Freeze
Water	60 ml	60-ml BOD bottle	Dissolved Oxygen	None	None

Table 6. Water Sar	Table 6. Water Sample Analytical Procedures	res				
Sample Matrix	Analyte (Units)	Method	Reference and Procedure	Detection Limit	Estimated Accuracy	Estimated Precision
Water	Temperature (°C)	Hydrolab Reporter / thermistor	APHA 1992 2550-B	0.05°C	±0.15	±0.15
Water	pH (units)	Hydrolab Reporter / electrode	APHA 1992 4500-H*-B	0.01 Units	±0.1	±0.01
Water	Conductivity (µS cm¹)	Hydrolab Reporter / electrode	APHA 1992 2510-B	0.001 µS cm <sup>-1</sup>	±0.015	+1%
Water	Dissolved Oxygen (mg I <sup>-1</sup> )	Hydrolab Reporter / electrode	APHA 1992 4500-0-G	0.01 mg l <sup>-1</sup>	±0.1	±0.05%
Water	Transparency (cm)	Secchi disk	Carlson 1995	0.1 cm	TBD1	TBD¹
Water	Ammonia-N (mg I <sup>-1</sup> )	Specific ion electrode	APHA 1992 4500-NH <sub>3</sub> - F	0.01 mg l <sup>-1</sup>	±0.05	±0.05
Water	Nitrate-N (mg l <sup>-1</sup> )	нРLС	APHA 1992 4500-NO <sub>3</sub> - C	0.01 mg l <sup>-1</sup>	±0.1	±0.01
Water	TKN (mg l <sup>-1</sup> )	Selective ion electrode	APHA 1992 4500-N <sub>org</sub> -B	0.1 mg l <sup>-1</sup>	±0.1	±0.1
Water	Dissolved TKN (mg l <sup>-1</sup> )	Selective ion electrode	APHA 1992 4500-N <sub>ora</sub> - B	0.1 mg l <sup>-1</sup>	±0.1	±0.1
						Sheet 1 of 3

Table 6. Water Sar	Table 6. Water Sample Analytical Procedures	res				
Sample Matrix	Analyte (Units)	Method	Reference and Procedure	Detection Limit	Estimated Accuracy¹	Estimated Precision <sup>1</sup>
Water	Total Phosphorus (mg l <sup>-1</sup> )	Digest / spectrometry	APHA 1992 4500-P B.1	0.02 mg l'	±0.1	±0.01
Water	Total Dissolved Phosphorus (mg I <sup>-1</sup> )	Digest / spectrometry	APHA 1992 4500-P B.1	0.02 mg l	±0.1	±0.01
Water	Total Inorganic Phosphorus (mg I <sup>-1</sup> )	Hydrolysis / spectrometry	APHA 1992 4500-P B.2	0.02 mg l <sup>-</sup>	±0.1	± 0.01
Water	Dissolved Inorganic Phosphorus (mg I <sup>-1</sup> )	Hydrolysis / spectrometry	APHA 1992 4500-P B.2	0.02 mg l	±0.1	±0.01
Water	Total Suspended Solids (mg l¹)	Dried @ 105°C	APHA 1992 2540-D	1 mg l <sup>-1</sup>	± 1.0	±0.01
Water	Volatile Suspended Solids (mg I¹)	Ignited @ 550°C	APHA 1992 2540 E	1 mg l¹	± 1.0	±0.01
Water	Total Organic Carbon (mg l¹)	Combust / IR	APHA 1992 5310-B	0.2 mg l <sup>-1</sup>	TBD	TBD
Water	Dissolved Organic Carbon (mg l¹)	Combust / IR	APHA 1992 5310-B	0.2 mg l <sup>-1</sup>	ТВD	TBD
Water	Chlorophyll a (mg/m³)	90% Acetone Extract	APHA 1992 10200 H	2 mg/m³	± 2.0	±0.10
						Sheet 2 of 3

Table 6. Water San	Table 6. Water Sample Analytical Procedures	res				
Sample Matrix	Analyte (Units)	Method	Reference and Procedure	Detection Limit	Estimated Accuracy¹	Estimated Precision¹
Water	Fecal Coliform (MPN/100 ml)	Membrane filter	APHA 1992 9222 D			
Water	Sulfide (mg l <sup>-1</sup> )	Spectrometry Field Kit	APHA 1992 4500-S²-D	0.5	TBD	TBD
			:			Sheet 3 of 3

<sup>1</sup>TBD indicates that sufficient data for an estimate have not yet been gathered by the LAERF laboratory to make estimates. Goals for accuracy and precision are those indicated in American Public Health Association (1992; APHA)

Table 7. Sediment-	Table 7. Sediment-Water Flux Analytical Procedures	Procedures				
Sample Matrix	Analyte (Units)	Method	Reference	Detection Limit	Estimated Accuracy	Estimated Precision *
Water	Dissolved Oxygen	Polarigraph electrode	АРНА, 1992	0.01 mg /l	0.01 mg/l	0.005mg/l
Water	Ammonia-N	Colorimetric	Solorzano, 1969	0.05 ug-at/l	0.15 ug-at/l	0.08/(n(.5))
Water	Nitrate-N	Colorimetric	Strickland and Parsons, 1972	0.05 ug-at/l	0.10 ug-at/l	0.5/(n(.5))
Water	Nitrite-N	Colorimetric	Strickland and Parsons, 1972	0.05 ug-at/l	0.025 ug-at/l	0.03/(n(.5))
Water	Ortho Phosphate	Colorimetric	Strickland and Parsons, 1972	0.05 ug-at/l	0.03 ug-at/l	0.03/(n(.5))

• Where n = number of replicate samples analyzed

# Appendix A Sample Station Locations

Table A1 Water Co	lumn Sam	ple Station	Locations			
Station	LATDIR	LATDEG	LATMIN	LONDIR	LONDEG	LONMIN
AO-1	N	18	28.9	W	66	6.5
AO-2	N	18	28.03	W	. 65	59.96
SJB-1	N	18	28.18	W	66	7.73
SJB-2	N	18	26.77	W	66	7.94
SJB-3	N	18	26.8	W	66	6.59
SJB-4	Ν	18	26.33	W	66	6.32
SJB-5	N	18	26.63	W	66	5.35
SA-1	N	18	27.61	W	66	5.88
LC-1	N	18	27.26	W	66	4.56
PN-1	N	18	26.1	W	66	4.66
MP-1	N	18	26.23	W	66	4.34
MP-2	N	18	25.95	W	66	3.71
SJ-1	N	18	26.46	W	66	2.17
SJ-2	Ν	18	25.72	W	66	2.11
SJ-3	Ν	18	25.07	W	66	1.58
SJ-4	N	18	25.61	W	66	1.47
SJ-5	N	18	25.42	W	66	0.71
SC-1	N	18	25.62	W	65	59.91
TL-1	N	18	27.5	W	65	59.62
TL-2	N	18	27.03	W	65	59.01
TL-3	N	18	26.61	W	65	59.11
TL-4	N	18	26.47	W	65	58.25
TL-5	N	18	25.97	W	65	58.03
PL-1	N	18	26.06	W	65	57.89
PL-2	N	18	26.34	W	65	57.21

Table A2	21						
Sedimen	t-water Flu	x Sample S	Sediment-water Flux Sample Station Locations	tions			
Station	LATDIR	LATDEG	LATMIN	LONDIR	LONDEG	LONMIN	INCUB
SOS-1	z	18	24.9	M	99	0.86	Dark
SOC-2	z	18	25.78	Α	99	1.46	Dark
SJC-3	z	18	26.92	Μ	99	6.62	Dark
SJS-4	z	18	26.06	Μ	99	6.45	Dark
SJW-5	z	18	26.76	Μ	99	7.93	Light
9-MCS	Z	18	26.76	Μ	99	7.93	Dark
TL-7	z	18	26.52	Μ	99	59.05	Dark
SC-8	z	18	25.63	Μ	99	59.7	Dark
PL-9	z	18	26.24	M	99	57.27	Light
PL-10	z	18	26,24	Μ	9	57.27	Dark

# Appendix B In Situ Data for Tributary and **Open-water Sampling Stations**

Table B1	B1													
In Sit	u Dat	a for	- Wa	ter C	olui	mn §	Samplin	In Situ Data for Water Column Sampling Stations	SL					
Station	Month	Day	Year	Sound	Rep	Split	Station Month Day Year Round Rep Split Depth (m)	Secchi (m) Temp (C) pH (STD) DO (mg/L)	Temp (C)	(GTS) Hq		Salinity (ppt)	Sulfide (mg/L)	Time
A0-1	9	26	98	1	-	1	0.5	20.8	28.42	8.35	6.16	37.8	٠	804
A0-1	9	26	98	1	1	1	10	20.8	28.02	8.36	6.28	37.8		804
A0-1	9	26	98	-	1	-	20.8	20.8	28	8.35	6.17	37.9		804
A0-2	9	26	92	1	1	-	0.5	16.5	28.17	8.31	5.76	37.9		750
A0-2	9	56	92	1	-	1	8	16.5	27.98	8.35	60.9	37.9		750
A0-2	9	26	95	1	-	-	16.4	16.5	27.94	8.33	5.84	37.9		750
LC-1	9	29	92	-	-	1	0.5	2.3	30.34	8.28	5.46	37.1		1051
LC-1	9	59	92	1	1	1	1	2.3	30.33	8.28	5.45	37.1		1051
LC-1	9	29	92	1	-	1	2	2.3	30.27	8.28	5.35	37.2		1051
LC-1	9	29	98	-	-	-	3	2.3	30.08	8.27	4.96	37.1		1051
LC-1	9	29	92	1	٦	1	4	2.3	29.95	8.24	4.54	37.2		1051
LC-1	9	29	92	1	-	-	5	2.3	29.98	8.24	4.6	37.1		1051
LC-1	9	29	92	-	-	-	9	2.3	29.86	8.16	3.57	37.2	-	1051
LC-1	9	29	92	-	-	-	7	2.3	29.76	8.02	1.06	37.1		1051
LC-1	9	29	95	-	-	-	8.2	2.3	29.48	7.93	0.04	37.2		1051
MP-1	9	27	95	-	-	-	0.5	9.0	31.04	8.15	8.03	19.4		1030
MP-1	9	27	95	-	-	-	1	9.0	30.12	8.14	2.41	35.6		1030
MP-1	9	27	92	-	-	-	2	9.0	28.97	7.87	0.07	36.9		1030
													Sheet 1 of 23	of 23

	_		_				_	_	_		_		_			_		<u> </u>	<u></u> т	<u> </u>	ο T	. 1				8
Time	1030	1050	1050	1050	1050	1050	1100	1100	1041	1041	955	955	955	1130	1130	1130	1130	1130	1130	1130	1130	932	932	935	932	Sheet 2 of 23
Sulfide (mg/L)	٠	12	12	12	12	12	•	٠	2	2				•	٠		•									Sheet
Salinity (ppt)	37	25.5	35.3	36.7	36.9	37	28.4	29.7	28.8	28.8	33.5	36.4	36.7	37.5	37.5	37.6	37.7	37.6	37.7	37.5	37.7	15	15.4	24.7	28.2	
pH (STD) DO (mg/L)	0.52	9.24	2.01	0.04	0.07	0.79	3.06	3.09	5.43	5.02	1.03	2.35	2.09	9.78	8.76	90'9	3.86	3.63	3.15	2.5	2.23	6.82	6.02	4.18	2.03	
	7.81	8.18	8.16	7.23	7.49	7.52	8.05	8.01	8.64	8.61	7.92	8	7.97	8.51	8.5	8.28	8.22	8.19	8.17	8.12	8.11	8.2	8.19	8.08	7.88	
Temp (C)	28.88	31.89	30.32	28.91	28.62	28.62	32.08	32	31.91	31.74	29.94	29.31	29.04	29.46	29.31	28.7	28.54	28.47	28.44	28.35	28.35	31.25	31.11	31.77	31.24	
Secchi (m)	9.0	0.4	0.4	0.4	0.4	0.4	0.4	4.0	0.2	0.2	9.0	0.8	8.0	1.8	9.	1.8	1.8	1.8	1.8	1.8	1.8	1.2	1.2	1.2	1.2	
Depth (m)	8	0.5	-	2	3	3.5	0.5	-	0.5	-	0.5	-	2	0.5	2	4	9	80	10	12	12.4	0.5	-	2	6	
Split	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<u> </u> -	-	-	-	-	上	上	-	-	
Rep	-	-	<u> -</u>	-	-	<u> -</u>	<u> -</u>	-	-	-	-	-	-	_	-	-	-	-	-	-	_	-	-	-	Ľ	-
Round	-	-	-	-	-	<u> </u> -	-	-	-	-	-	-	-	-	-	Ŀ	-	-	-	-	-	-	Ŀ	Ŀ	-	4
Year	95	95	95	95	95	95	95	95	95	95	95	95	95	╄	95	95	+-	╀-	95	95	95	95	1-	+-	4-	4
Day	27	27	2	27	27	27	28	28	28	28	27	27	27	26	26	28	28	26	26	26	26	28	28	78	7	1
Month	g	٩	٤	9	9	9	9	9	9	9	9	۳	9	9	9	۳	عاد	9	6	9	9	۳	6	9		2
Station Month Day Year Round Rep	MP-1	MP-2	MP-2	MP-2	MP-2	MP-2	1 -	<u>-</u>	PI-2	PI - 2	Ž	PN-1	PN	SA-1	SA-1	1.4	7 - V	SA-1	SA-1	SA-1	SA-1	2.7	3	2	2 2	3

1.2         31.03         7.76         0.12         28.6          935           1.2         30.91         7.83         0.02         29.2          935           1.2         29.74         7.29         0.03         31          935           1.2         29.23         7.18         0.04         31.2          935           1.2         28.97         7.13         0.05         31.4          935           1.2         28.87         7.12         0.14         31.4          935           0.8         30.68         8.35         6.17         13.5          825           0.8         30.69         8.1         4.6         13.6          825           0.8         31.2         8.34         5.92         13.8          825           1.6         31.2         8.34         5.92         13.8          825           1.6         31.2         8.34         5.92         13.8          825           1.6         31.2         8.34         5.92         13.8          825	Station Month Day Year Round Rep Split Depth (m) Secchi (m) Temp (C)
29.74         7.83         0.02         29.2            29.74         7.29         0.03         31            28.93         7.18         0.04         31.2            28.99         7.13         0.05         31.4            30.63         8.37         6.18         13.5            30.65         8.35         6.17         13.5            30.69         8.1         4.6         1.3            30.73         8.07         4.77         13.8            30.69         8.1         4.6         13.6            31.2         8.34         5.92         13.8            31.2         8.34         5.92         13.8            31.2         8.34         5.92         13.8            31.2         8.35         7.29         14.1            30.83         8.55         7.29         14.1            30.95         8.48         7.68         14.1            30.74         7.77         2.13         17.2	1 1 1 4
29.74 7.29 0.03 31  28.39 7.13 0.05 31.4  28.87 7.12 0.04 31.2  28.87 7.12 0.04 31.2  30.63 8.35 6.17 13.5  30.65 8.35 6.17 13.6  30.73 8.07 4.77 13.8  31.2 8.34 5.92 13.8  31.61 7.76 4.68 15  30.91 8.56 7.29 14.1  30.92 8.48 7.68 14.1  30.77 8.45 6.35 14.1  30.77 8.45 6.35 14.1  31.94 7.77 2.13 17.2  31.44 7.73 0.85 26.5  29.44 7.08 0.03 29.5  29.59 7.11 0.37 30	1 1 1 5
28.23       7.18       0.04       31.2          28.99       7.13       0.05       31.4          28.87       7.12       0.14       31.4          30.63       8.37       6.18       13.5          30.65       8.35       6.17       13.5          30.65       8.35       6.17       13.5          30.69       8.1       4.6       13.8          30.69       8.1       4.6       13.8          31.2       8.34       5.92       13.8          31.61       7.76       4.68       15          30.91       8.5       7.29       14.1          30.83       8.55       7.29       14.1        8         30.94       8.48       7.68       14.1        8         30.95       8.48       7.68       14.1        8         30.77       8.45       6.35       14.1        8         30.74       7.77       2.13       17.2          30.52       7.15       0.01	1 1 6
28.99       7.13       0.05       31.4          28.87       7.12       0.14       31.4          30.65       8.37       6.18       13.5          30.65       8.35       6.17       13.5          30.69       8.1       4.6       13.6          30.73       8.07       4.77       13.3          31.2       8.34       5.92       13.8          31.61       7.76       4.68       15          30.91       8.56       7.59       14.1          30.83       8.55       7.29       14.1          30.95       8.48       7.68       14.1          30.77       8.45       6.35       14.1          30.77       8.45       6.35       14.1          31.94       7.77       2.13       17.2          30.22       7.15       0.01       28.7          29.56       7.09       0.28       29.2          29.44       7.08       0.03       29.5          <	1 1 1 7
28.87       7.12       0.14       31.4          30.65       8.35       6.18       13.5          30.65       8.35       6.17       13.5          31.73       7.66       1.3       16          30.73       8.07       4.77       13.3          30.69       8.1       4.6       13.6          31.2       8.34       5.92       13.8          31.61       7.76       4.68       15          30.91       8.56       7.58       14.1          30.83       8.55       7.29       14          30.95       8.22       4.13       14.8          30.77       8.45       6.35       14.1          30.79       8.48       7.68       14.1          31.94       7.77       2.13       17.2          30.22       7.15       0.01       28.7          29.56       7.09       0.28       29.2          29.44       7.08       0.03       29.5          29	1 1 8
30.63       8.37       6.18       13.5          30.65       8.35       6.17       13.5          31.73       7.66       1.3       16          30.73       8.07       4.77       13.3          30.69       8.1       4.6       13.6          31.2       8.34       5.92       13.8          31.61       7.76       4.68       15          30.81       8.56       7.29       14          30.82       8.55       7.29       14.1          30.77       8.48       7.68       14.1           30.77       8.45       6.35       14.1            30.77       8.45       6.35       14.1            30.25       7.15       0.01       28.7            30.77       8.45       6.35       14.1            30.26       7.15       0.01       28.7            29.44       7.08	1 1 8.8
30.65 8.35 6.17 13.5 31.73 7.66 1.3 16 30.73 8.07 4.77 13.3 16 30.69 8.1 4.6 13.6 31.2 8.34 5.92 13.8 31.2 8.33 5.72 13.8 30.91 8.56 7.29 14.1 30.85 8.22 4.13 14.8 30.77 8.45 6.35 14.1 30.77 8.45 6.35 14.1 30.77 8.45 6.35 14.1 30.72 7.15 0.01 28.7 30.22 7.15 0.01 28.7 29.56 7.09 0.28 29.25 7.11 0.37 30.9 5.80 7.11 0.37 30.9 5.80 7.11 0.37 30.9 5.80 7.11 0.37 30.9 5.80 7.11 0.37 \$30.9 5.80 7.11 0.32 7.11 0.37 \$30.9 5.80 7.11 0.32 7.11 0.37 \$30.9 5.80 7.11 0.32 7.11 0.37 \$30.9 5.80 7.11 0.32 7.11 0.32 7.12 0.30 7.12	1 1 0.5
31.73       7.66       1.3       16          30.73       8.07       4.77       13.3          30.69       8.1       4.6       13.6          31.2       8.34       5.92       13.8          31.2       8.33       5.72       13.8          30.91       8.56       7.29       14          30.83       8.55       7.29       14          30.95       8.22       4.13       14.8          30.77       8.48       7.68       14.1          30.77       8.45       6.35       14.1          31.44       7.77       2.13       17.2          30.22       7.15       0.01       28.7          29.56       7.09       0.28       29.5          29.44       7.08       0.03       29.5          29.29       7.11       0.37       30	
30.73     8.07     4.77     13.3       30.69     8.1     4.6     13.6        31.2     8.34     5.92     13.8        31.2     8.33     5.72     13.8        30.91     8.56     7.58     14.1        30.95     8.22     4.13     14.8        30.79     8.48     7.68     14.1        30.77     8.45     6.35     14.1        31.94     7.77     2.13     17.2        30.22     7.15     0.01     28.7        29.56     7.09     0.28     29.5        29.44     7.08     0.03     29.5        29.29     7.11     0.37     30	1 1 1 2
30.69 8.1 4.6 13.6 31.2 8.34 5.92 13.8 31.2 8.33 5.72 13.8 30.91 8.56 7.29 14.1 30.83 8.55 7.29 14 30.95 8.22 4.13 14.8 30.77 8.45 6.35 14.1 31.94 7.77 2.13 17.2 31.44 7.73 0.85 26.5 29.56 7.09 0.28 29.2 29.44 7.08 0.03 29.5 Sheet 3 o.	1 1 1 0.5
31.2     8.34     5.92     13.8       31.2     8.33     5.72     13.8       31.61     7.76     4.68     15       30.91     8.56     7.58     14.1       30.83     8.55     7.29     14       30.95     8.48     7.68     14.1       30.77     8.45     6.35     14.1       31.94     7.77     2.13     17.2       31.44     7.73     0.85     26.5       30.22     7.15     0.01     28.7       29.56     7.09     0.28     29.2       29.44     7.08     0.03     29.5       29.29     7.11     0.37     30	1 1 1
31.2     8.33     5.72     13.8       31.61     7.76     4.68     15       30.91     8.56     7.58     14.1       30.83     8.55     7.29     14       30.95     8.22     4.13     14.8       30.70     8.48     7.68     14.1       30.77     8.45     6.35     14.1       31.94     7.77     2.13     17.2       31.44     7.73     0.85     26.5       30.22     7.15     0.01     28.7       29.56     7.09     0.28     29.2       29.44     7.08     0.03     29.5       29.29     7.11     0.37     30	1 1 0.5
31.61     7.76     4.68     15       30.91     8.56     7.58     14.1       30.83     8.55     7.29     14       30.95     8.48     7.68     14.1       30.70     8.45     6.35     14.1       31.94     7.77     2.13     17.2       31.44     7.73     0.85     26.5       30.22     7.15     0.01     28.7       29.56     7.09     0.28     29.2       29.44     7.08     0.03     29.5       29.29     7.11     0.37     30	1 1 1
30.91     8.56     7.58     14.1       30.83     8.55     7.29     14       30.95     8.22     4.13     14.8       30.79     8.48     7.68     14.1       30.77     8.45     6.35     14.1       31.94     7.77     2.13     17.2       31.44     7.73     0.85     26.5       30.22     7.15     0.01     28.7       29.56     7.09     0.28     29.2       29.44     7.08     0.03     29.5       29.29     7.11     0.37     30	1 1 1 2
30.83     8.55     7.29     14       30.95     8.22     4.13     14.8       30.79     8.48     7.68     14       30.77     8.45     6.35     14.1       31.94     7.77     2.13     17.2       31.44     7.73     0.85     26.5       30.22     7.15     0.01     28.7       29.56     7.09     0.28     29.2       29.44     7.08     0.03     29.5       29.29     7.11     0.37     30	1 1 1 0.5
30.95     8.22     4.13     14.8       30.79     8.48     7.68     14       30.77     8.45     6.35     14.1       31.94     7.77     2.13     17.2       31.44     7.73     0.85     26.5       30.22     7.15     0.01     28.7       29.56     7.09     0.28     29.2       29.44     7.08     0.03     29.5       29.29     7.11     0.37     30	
30.79     8.48     7.68     14       30.77     8.45     6.35     14.1       31.94     7.77     2.13     17.2       31.44     7.73     0.85     26.5       30.22     7.15     0.01     28.7       29.56     7.09     0.28     29.2       29.44     7.08     0.03     29.5       29.29     7.11     0.37     30	1 1 1 2
30.77     8.45     6.35     14.1       31.94     7.77     2.13     17.2       31.44     7.73     0.85     26.5       30.22     7.15     0.01     28.7       29.56     7.09     0.28     29.2       29.44     7.08     0.03     29.5       29.29     7.11     0.37     30	1 1 0.5
31.94     7.77     2.13     17.2       31.44     7.73     0.85     26.5       30.22     7.15     0.01     28.7       29.56     7.09     0.28     29.2       29.44     7.08     0.03     29.5       29.29     7.11     0.37     30	1 1 1
31.44     7.73     0.85     26.5       30.22     7.15     0.01     28.7       29.56     7.09     0.28     29.2       29.44     7.08     0.03     29.5       29.29     7.11     0.37     30	-
30.22     7.15     0.01     28.7       29.29     7.09     0.28     29.2       29.29     7.11     0.37     30	1 1 3
29.56     7.09     0.28     29.2       29.29     7.11     0.37     30	1 1 1 4
29.29     7.11     0.37     29.5	1 1 5
29.29 7.11 0.37 30	1 1 6
Sheet 3 of 23	1 1 1 6.8

0	8	e e	8	œ	m	m	8	œ	0	0	0	92	2	2	2	9	92	25	31	듰	31	듰	22	25	22	23
Time	806	908	908	908	908	908	908	908	940	940	940	1005	1005	1005	1005	1005	1005	1005	1031	1031	1031	1031	1055	1055	1055	4 of
Sulfide (mg/L)	•	•	•	•	•	•	٠	•	•	٠	•	0	0	0	0	0	0	0			•			•	•	Sheet 4 of 23
Salinity (ppt)	37.3	37.6	37.7	37.6	37.6	27.78	37.7	37.7	36.5	36.7	37.4	37.3	37.5	37.6	37.6	37.6	37.7	37.7	37.3	37.2	37.3	37.3	36.7	36.7	37.5	
DO (mg/L)	5.92	6.02	9	26'9	6.04	2.93	5.89	5.86	5.85	5.82	4.38	7.39	65'2	6.78	5.58	5.15	4.62	3.58	11.5	11.13	5.46	5.34	11.68	11.5	6.05	
pH (STD)	98.8	8.37	8.36	8.35	8.36	8.35	8.35	8.34	8.39	8.39	8.28	8.43	8.44	8.41	8.34	8.31	8.28	8.2	8.56	8.56	8.3	8.29	8.59	9.8	8.36	
Temp (C)	31.18	29.34	28.42	28.27	28.98	28.35	28.03	28	30.59	30.56	29.98	30.15	29.27	10.67	28.81	28.59	28.46	29.29	30.22	30.2	29.32	29.13	30.14	30.12	29.03	
Secchi (m)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	0.5	0.5	0.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	1.6	1.6	1.6	
Depth (m)	0.5	2.5	4.5	6.5	8.5	10.5	12.5	14.5	0.5	1	1.8	0.5	2	4	9	80	10	11.6	0.5	1	2	2.5	0.5	1	3	
Split	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	
Rep	1	1	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Round	1	-	-	1	-	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Year	92	92	92	92	95	95	95	92	92	92	98	92	98	95	92	95	95	92	92	92	92	92	98	95	92	
Day	26	26	26	26	26	26	26	26	26	26	26	56	26	26	26	26	26	26	56	26	26	26	26	26	26	
Month	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
Station Month Day Year	SJB-1	SJB-2	SJB-2	SJB-2	SJB-3	SJB-4	SJB-4	SJB-4	SJB-4	SJB-5	SJB-5	SJB-5														

Subsection         Month Day Year         Round Rep   Split Depth (m)   Seechi (m)   Seechi (m)   Seechi (m)   Definity (ppt)   Sulfide (mg/L)   Sulfide (mg/L)   Time         Subsection (month) Day Year         Round (month) Day Year         Subsection (month) Day Yea	۲	-	L	-		ŀ								
6         26         96         1         2         1         1         1         1         1         1         1         1         1         2         1         1         1         1         2         1         1         1         1         2         1         1         1         1         2         1         1         1         1         2         3         1         2         3         2         3         3         3         3         3         3         3         3         4         3         3         4         3         3         4         3	Ē	Month	Зау Уев	r Roune		Split	Depth (m)	Secchi (m)	Temp (C)	_	DO (mg/L)	Salinity (ppt)	Sulfide (ma/L)	Time
10   10   10   10   10   10   10   10		$\dashv$	_	1	-	-	5	1.6	28.72	8.35	5.62	37 E	ì	1000
6         26         26         1         1         9         1.6         28.23         8.25         3.77         3.77           6         26         26         36         1         2         3.42         3.78         3.76         9           6         26         35         1         1         1         1         2         3.24         8.23         5.81         3.74         3.75         9           6         26         35         1         1         1         2         2.844         8.23         5.81         3.74         3.74         3.74           6         26         36         1         1         1         1         2.844         8.23         5.81         3.74         3.74         3.74           6         29         36         1         1	10	_		L	-	-	_	1.6	28 54	8 20	4 66	27.0		GGOI
6         26         36         1         28.44         8.29         5.81         37.4         9.72         9.73         9.73         9.73         9.73         9.73         9.73         9.73         9.73         9.73         9.73         9.74         9.73         9.74         9.73         9.74         9.73         9.74         9.73         9.74         9.73         9.74         9.73         9.74         9.73         9.74         9.74         9.74         9.74         9.74         9.74         9.74         9.74	15	-	⊢	-	-	-	6	1.6	28 23	8 22	27.0	97.7		1055
6 26 95 1 1 1 1 0.5 1.2 29.01 8.24 5.25 35.0	1.5	Н	⊢-	-	-	-	10.9	2	28 23	0 10	0,70	37.6		1055
6         56         95         1         1         1         2.0         2.0         9.24         3.53            6         26         95         1         1         1         1         2         1         28.44         8.3         5.81         37.4            6         96         96         1         1         2         1         28.44         8.3         5.83         37.7            6         96         96         1         1         1         28.44         8.3         5.83         37.7            6         29         95         1         1         1         0.7         29.68         8.23         4.81         37.4            6         29         95         1         1         1         0.7         29.68         8.23         4.81         32.4         3.74         3.24           6         29         95         1         1         1         0.7         29.68         8.24         8.14         3.23         7.2           6         29         95         1         1         1         0.7         29.68	-	H	⊢	-	Ŀ	-	0.5	-	20.02	0.0	3.42	37.6		1055
6         26         26         95         1         1         2         1         28.44         8.29         5.81         37.4            6         26         95         1         1         1         2         1         28.44         8.29         5.83         37.7            6         26         95         1         1         1         3.2         1         28.44         8.23         5.83         37.7            6         29         95         1         1         1         3.2         1         28.44         8.23         5.11         37.5            6         29         95         1         1         1         0.5         29.58         8.23         4.81         32.4          32.4          32.4          32.4          32.4          32.4          32.4          32.4          32.4          32.4          32.4          32.4          32.4          32.4          32.4          32.4	┢	┢	╄	-	Ŀ	Ŀ			23.01	0.24	5.25	35.3		715
1	╁	十	+	- -	1	1	-	-	28.36	8.3	5.81	37.5		715
6         26         95         1         3         1         28.44         8.3         5.83         37.7            6         26         95         1         1         3.2         1         28.42         8.23         5.11         32.6            6         29         95         1         1         1         0.5         0.7         29.68         8.23         5.11         32.2            6         29         95         1         1         1         0.5         0.95         8.23         4.81         32.2            6         29         96         1         1         1         0.5         0.86         8.23         4.81         32.4            6         29         96         1         1         1         0.5         29.68         8.24         8.14         32.3            6         29         96         1         1         1         0.5         0.86         8.95         8.74         32.5            6         29         96         1         1         1         0.5         0.69         29.58<	╁	+	-	- -		-	2	-	28.44	8.29	5.8	37.4		715
6 26 95 1 1 1 3.2 1 0.5 0.7 29.68 8.23 5.11 32.2	+	+	4	-	-	-	9	-	28.44	8.3	5.83	37.7		715
6 29 95 1 1 1 0.5 0.7 29.68 8.23 5.11 32.2	+	7	4	4	-	-	3.2	-	28.42	8.27	5.79	37.6		715
6         29         95         1         1         1         0.7         29.6         8.23         4.81         32.4            6         29         95         1         1         1         1         1         1         1         1         29.63         8.17         4.62         34.7            6         29         95         1         1         1         0.6         29.58         8.24         5.14         32.3            6         29         95         1         1         1         0.8         29.58         8.24         5.14         32.3            6         29         95         1         1         1         0.8         30.08         8.04         3.17         28.6            6         29         95         1         1         1         0.6         29.92         7.86         0.03         35.6           6         29         95         1         1         4         0.6         29.58         7.27         0.04         36.3           6         29         95         1         1         1         4	+	┪	-	-	-	-	0.5	0.7	29.58	8.23	5.11	32.2		2 2 2
6         29         95         1         1         1.3         0.7         29.83         8.17         4.62         34.7            6         29         95         1         1         1         0.5         0.8         29.54         8.24         5.14         32.3            6         29         95         1         1         1         0.8         29.58         8.24         5.14         32.3            6         29         95         1         1         1         0.8         29.58         8.24         5.14         32.5            6         29         95         1         1         1         0.0         8.06         29.58         8.04         3.17         28.6            6         29         95         1         1         1         0.05         29.58         7.27         0.04         36.1            6         29         95         1         1         1         4         0.6         27.13         7.18         0.04         36.3           6         29         95         1         1         1         1	+	+		-	-	-	1	0.7	29.6	8.23	4.81	32.4		25.00
6         29         95         1         1         0.5         0.8         29.54         8.24         6.14         32.3            6         29         95         1         1         1         0.8         29.58         8.23         4.74         32.3            6         29         95         1         1         1         0.8         30.68         8.04         3.42         32.5            6         29         95         1         1         1         0.05         29.98         8.04         3.17         28.6            6         29         95         1         1         1         4         0.6         29.92         7.86         0.03         35.6            6         29         95         1         1         4         0.6         27.75         7.27         0.04         36.3            6         29         95         1         1         1         6         0.6         27.13         7.18         0.04         36.3           6         29         95         1         1         1         1         1	$\dashv$	1	_		-	1	1.3	0.7	29.83	8.17	4.62	34.7		2 2 2
6         29         95         1         1         1         0.8         29.58         8.23         4.74         32.5         9.25           6         29         95         1         1         1.2         0.8         30.08         8.16         3.42         34.2         32.5           6         29         95         1         1         1         0.6         29.92         7.86         0.03         35.6         9.0           6         29         95         1         1         4         0.6         29.58         7.92         0.04         36.3         9.0           6         29         95         1         1         4         0.6         27.75         7.27         0.04         36.3         9.0           6         29         95         1         1         1         6         0.6         27.13         7.18         0.04         36.3           6         29         95         1 <td>+</td> <td>+</td> <td>_</td> <td>-</td> <td>-</td> <td>1</td> <td></td> <td>9.0</td> <td>29.54</td> <td>8.24</td> <td>5.14</td> <td>32.3</td> <td></td> <td>820</td>	+	+	_	-	-	1		9.0	29.54	8.24	5.14	32.3		820
29         95         1         1         1.2         0.8         30.08         8.16         3.42         34.2         34.2           29         95         1         1         1         0.5         0.6         30.69         8.04         3.17         28.6           29         95         1         1         1         2         0.6         29.92         7.86         0.03         35.6           29         95         1         1         1         4         0.6         29.58         7.27         0.04         36.1            29         95         1         1         1         6         0.6         27.75         7.27         0.04         36.3            29         95         1         1         1         8         0.6         27.13         7.18         0.04         36.3            29         95         1         1         1         1         1         7.18         0.04         36.3            29         95         1         1         1         1         1         1         7.14         0.05         36.3	+	┪	-	-	-	1	-	8.0	29.58	8.23	4.74	32.5		820
29         95         1         1         0.5         0.6         30.69         8.04         3.17         28.6            29         95         1         1         2         0.6         29.92         7.86         0.03         35.6            29         95         1         1         4         0.6         29.58         7.92         0.04         36.1            29         95         1         1         1         6         0.6         27.75         7.27         0.04         36.3            29         95         1         1         1         8         0.6         27.13         7.18         0.04         36.3            29         95         1         1         1         1         1         7.18         0.04         36.3            29         95         1         1         1         1         1         7.15         0.05         36.4            29         95         1         1         1         13.5         0.6         27.1         7.14         0.07         36.3           28 <td< td=""><td><math>\dashv</math></td><td><math>\dashv</math></td><td>-</td><td>1</td><td>-</td><td>1</td><td>1.2</td><td>9.0</td><td>30.08</td><td>8.16</td><td>3.42</td><td>34.2</td><td></td><td>200</td></td<>	$\dashv$	$\dashv$	-	1	-	1	1.2	9.0	30.08	8.16	3.42	34.2		200
29         95         1         1         2         0.6         29.92         7.86         0.03         35.6            29         95         1         1         4         0.6         29.58         7.92         0.04         36.1            29         95         1         1         1         6         0.6         27.75         7.27         0.04         36.3            29         95         1         1         1         8         0.6         27.13         7.18         0.04         36.4            29         95         1         1         1         1         0.6         27.13         7.18         0.04         36.3            29         95         1         1         1         1         1         7.15         0.05         36.4            29         95         1         1         1         1         1         7.14         0.07         36.3            28         95         1         1         1         0.6         27.1         7.14         0.07         36.3            28<	4			-	-	-	0.5	9.0	30.69	8.04	3 17	28.6		250
29         95         1         1         4         0.6         29.58         7.92         0.04         36.1            29         95         1         1         1         6         0.6         27.75         7.27         0.04         36.3            29         95         1         1         1         8         0.6         27.13         7.18         0.04         36.3            29         95         1         1         1         1         7.15         0.05         36.4            29         95         1         1         1         1         1         7.15         0.05         36.4            28         95         1         1         1         1         1         0.05         36.4             28         95         1         1         1         1         0.05         27.1         7.14         0.07         36.3            28         95         1         1         1         0.4         33.05         7.98         4.58         19.6            28         95		Н		-	-	-	2	9.0	29.92	7.86	0.03	37.6		7,40
29         95         1         1         6         0.6         27.75         7.27         0.04         36.3            29         95         1         1         1         8         0.6         27.38         7.28         0.04         36.3            29         95         1         1         1         10         0.6         27.13         7.18         0.04         36.3            29         95         1         1         1         1         0.6         27.1         7.15         0.05         36.4            28         95         1         1         1         13.5         0.6         27.1         7.14         0.07         36.3            28         95         1         1         1         0.6         27.1         7.14         0.07         36.3            28         95         1         1         1         0.6         33.05         7.98         4.58         19.6            28         95         1         1         1         0.4         31.96         8.02         2.4         32.7		Н	_	-	-	-	4	9.0	29.58	7.92	0.04	36.1		04,6
29         96         1         1         1         8         0.6         27.38         7.23         0.04         36.4            29         95         1         1         1         0.06         27.13         7.18         0.04         36.3            29         95         1         1         1         12         0.6         27.1         7.15         0.05         36.4            28         95         1         1         1         13.5         0.6         27.1         7.14         0.07         36.3            28         95         1         1         1         0.6         33.05         7.98         4.58         19.6            28         95         1         1         1         0.04         33.05         7.98         4.58         19.6            28         95         1         1         1         0.04         31.96         8.02         2.4         32.7				1	-	-	9	9.0	27.75	7.27	0.04	36.3		140
29         95         1         1         10         0.6         27.13         7.18         0.04         36.3            29         95         1         1         12         0.6         27.1         7.15         0.05         36.4            28         95         1         1         1         13.5         0.6         27.1         7.14         0.07         36.3            28         95         1         1         1         0.5         0.4         33.05         7.98         4.58         19.6            28         95         1         1         1         1         0.4         31.96         8.02         2.4         32.7	$\dashv$	$\dashv$	_	-	-	1	8	9.0	27.38	7.23	0.04	36.4		740
29         95         1         1         12         0.6         27.1         7.15         0.05         36.4         36.4           29         95         1         1         13.5         0.6         27.1         7.14         0.07         36.3           28         95         1         1         1         0.5         0.4         33.05         7.98         4.58         19.6           28         95         1         1         1         1         0.4         31.96         8.02         2.4         32.7         Sheet 5	4	$\dashv$	_	-	-	-	10	9.0	27.13	7.18	0.04	36.3		740
29         95         1         1         13.5         0.6         27.1         7.14         0.07         36.3         .           28         95         1         1         1         0.5         0.4         33.05         7.98         4.58         19.6         .           28         95         1         1         1         1         0.4         31.96         8.02         2.4         32.7         .           Sheet 5	$\dashv$	-		-	-	-	12	9.0	27.1	7.15	0.05	36.4		2 2
28         95         1         1         1         0.5         0.4         33.05         7.98         4.58         19.6         .           28         95         1         1         1         1         0.4         31.96         8.02         2.4         32.7         .           Sheet 5	4	$\dashv$	-	-	-	1	13.5	9.0	27.1	7.14	0.07	36.3		2 2
28 95 1 1 1 0.4 31.96 8.02 2.4 32.7 Sheet 5	_	_	-	-	-	1	0.5	0.4	33.05	7.98	4.58	19.6		1120
Sheet 5 of 23	$\dashv$	$\dashv$	_	-	-	-	-	0.4	31.96	8.02	2.4	32.7		1120
													Sheet 5	of 23

Station Month Day Year Round	1	1	Rep	Split	Depth (m)	Secchi (m)	Temp (C)	pH (STD)	Temp (C) pH (STD) DO (mg/L)	Salinity (ppt)	Sulfide (mg/L)	Time
28 95 1 1 1 1 1.		1 1 1.	-	-	1.5	9.0	31.46	7.86	0.89	34.3		1120
10 95 2 1 1 0.5	2 1 1	1 1 0.5	1 0.5	0.5		21.3	28.25	8.43	6.08	36.6		840
10 95 2 1 1 10.5	2 1 1	1 1 10.5	1 10.5	10.5		21.3	28.15	8.42	5.97	36.6		840
10 95 2 1 1 21.3	2 1 1	1 1 21.3	1 21.3	21.3		21.3	28.02	8.42	5.87	36.6		840
10 95 2 1 1 0.5	2 1 1 0.	1 1 0.5	1 0.5	0.5		21.5	28.29	8.42	6.2	36.5	•	800
10 95 2 1 1 10.5	2 1 1	1 1 10.	1 10.	10	2	21.5	28.02	8.42	6.2	36.7		800
10 95 2 1 1 21.5	2 1 1	1 1 21.	1 21.	21.	<u></u>	21.5	27.98	8.41	6.07	36.6		800
13 95 2 1 1 0.5	2 1 1	-	_	0.5		2.5	31.73	8.42	6.6	35.9		1245
13 95 2 1 1 1	L	1 1	-	-		2.5	31.05	8.42	69.9	36	•	1245
13 95 2 1 1 2	2 1 1	1 1 2	1 2	2		2.5	30.14	8.41	6.57	36.2	•	1245
13 95 2 1 1 3	2 1 1			3	Γ	2.5	30.04	8.39	6.11	36.2		1245
13 95 2 1 1 4	2 1 1	1 1 4	1 4	4		2.5	29.76	8.35	5.34	36.1	٠	1245
13 95 2 1 1 5	2 1 1	1 1 5	1	ß	Γ	2.5	29.58	8.31	4.81	36.1		1245
13 95 2 1 1 6	2 1 1			9		2.5	29.5	8.29	4.37	36.1	·	1245
13 95 2 1 1 6.5	2 1 1	1 1 6.5	1 6.5	6.5		2.5	29.5	8.23	3.17	36.2		1245
13 95 2 1 1 0.5	2 1 1	1 1 0.5	1 0.5	Ö		0.7	29.68	7.86	3.17	30.7	•	950
13 95 2 1 1 1	2 1 1			-		0.7	29.48	8.25	4.61	34.4		950
13 95 2 1 1 2	2 1 1	1 1 2	1 2	7		0.7	29.32	8.01	1.12	35.5		950
13 95 2 1 1 3.2	2 1 1	1 1 3.	1 3.	3.	2	0.7	29.15	8.1	1.7	35.9		950
13 95 2 1 1 0.5	2 1 1	_	_	ö		8.0	29.98	7.92	1.5	31.4	10	915
13 95 2 1 1 1	L	-	-	_		0.8	30	7.97	2.47	33.3	10	915
13 95 2 1 1 2	2 1 1	1 1 2	1 2	2		8.0	29.27	7.79	0.02	35.9	10	915
13 95 2 1 1 3	2 1 1	L	L	3		9.0	29.01	7.43	0.03	36	10	915
↓_	2 1 1	-	-	4		0.8	28.89	7.32	0.04	36.1	10	915
12 95 2 1 1 0	2 1 1	_	_	°	0.5	0.5	31.3	8.09	2.14	30.8		950
	-										Sheet	Sheet 6 of 23
					I							

Time	950	950	006	900	835	835	835	1125	1125	1125	1125	1125	1125	1125	1110	1110	1110	1110	1110	1110	1110	1110	1110	1110	840	of 23
Sulfide (mg/L)			5	5															٠							Sheet 7 of 23
Salinity (ppt)	30.8	30.8	30.4	30.6	12.1	34.1	35.6	36.4	36.4	36.4	36.4	36.4	36.4	36.4	16.5	17.1	26.1	27.9	28.7	29.1	29.5	30.7	30.8	30.8	14.6	
pH (STD) DO (mg/L)	2.13	2.16	5.87	5.91	1.95	3.2	3.49	6.12	9	5.61	5.08	رى	4.8	3.6	6.35	7.31	2.91	1.28	0.05	0.02	0.01	0.01	0.01	0.05	6.88	
pH (STD)	8.09	8.09	8.72	8.7	7.66	8.06	8.12	8.38	8.38	8.37	8.35	8.34	8.33	8.28	8.18	8.41	8.02	7.93	7.93	7.86	7.58	7.26	7.22	7.21	8.59	
Temp (C)	31.28	31.26	30.38	30.38	29.7	29.38	29.09	29.19	29.17	28.99	28.77	28.77	28.77	28.58	30.95	30.81	31.46	30.99	30.97	30.79	30.5	29.38	29.09	28.95	30.52	
Station Month Day Year Round Rep Split Depth (m) Secchi (m) Temp (C)	0.5	0.5	0.3	0.3	0.5	0.5	0.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	
Depth (m)	1	1.3	0.5	1	0.5	1	2	0.5	2	4	9	8	10	12.1	0.5	1	2	3	4	5	9	7	8	6	0.5	
Split	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Rep	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Round	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Year	92	95	92	95	92	92	92	95	95	92	92	95	92	92	95	92	98	95	92	98	98	98	98	92	92	
Day	12	12	12	12	13	13	13	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11	11	
Month	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
Station	PL-1	PL-1	PL-2	PL-2	PN-1	PN-1	PN-1	SA-1	SC-1	SC-1	SC-1	SC-1	SC-1	SC-1	SC-1	SC-1	SC-1	SC-1	SJ-1							

a e	840	840	910	910	000	1000	945	945	945	1015	1015	1015	1015	910	910	910	910	910	910	910	910	910	940	940	940	23
Time	84	84	91	91	10	10	76	76	76	10	10	10	10	6	6	6	6	6	6	6	6	6	6	6	6	8 of
Sulfide (mg/L)	•		•	•	٠			•	•	•	•	•	•	٠	•	٠	٠	•		٠			٠	•		Sheet 8 of 23
Salinity (ppt)	14.8	15	15.2	15.2	15.8	15.8	15.9	16	15.9	16	16	22.4	27.2	36.4	36.4	36.4	36.5	36.7	36.6	36.7	36.6	36.5	35.6	35.6	35.6	
Station   Month   Day   Year   Round   Rep   Split   Depth (m)   Secchi (m)   Temp (C)   pH (STD)   DO (mg/L)	6.26	5.42	7.8	7.4	4.01	3.91	9	6.05	6.18	5.24	5.41	2.65	0.34	5.58	6.01	5.84	5.77	5.82	5.78	5.81	2.77	5.79	5.62	5.46	5.28	
pH (STD)	8.55	8.4	8.45	8.44	7.86	7.82	8.26	8.28	8.28	8.11	8.09	7.92	7.95	8.37	8.39	8.41	8.4	8.41	8.42	8.42	8.42	8.42	8.39	8.38	8.37	
Temp (C)	30.38	30.26	29.74	29.72	30.26	30.26	30.3	30.28	30.26	30.71	30.67	31.77	31.32	30.48	29.06	28.91	28.75	28.29	28.25	28.21	28.17	28.17	29.36	29.32	29.27	
Secchi (m)	9.0	9.0	0.3	0.3	1.1	1.1	1.5	1.5	1.5	9.0	8.0	9.0	0.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	9.0	9.0	9.0	
Depth (m)	1 .	1.8	0.5	1	0.5	1.4	0.5	1	2	0.5	1	2	က	0.5	7	4	9	8	10	12	14	16.6	0.5	1	1.9	
Split	-	ı	1	l	-	-	-	1	-	-	-	1	-	-	1	-	-	-	-	-	-	Ŀ	-	1	-	
Rep	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	
Round	2	2	7	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Year	98	95	92	92	95	95	95	95	92	98	92	95	92	92	98	92	98	98	92	95	92	92	92	98	95	
Day	11	11	11	=	=	=	Ξ	=	11	=	Ξ		Ξ	9	10	10	10	10	10	2	9	0	10	10	9	
Month	7	4	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
Station	SJ-1	SJ-1	SJ-2	SJ-2	87-3	SJ-3	SJ-4	SJ-4	SJ-4	SJ-5	SJ-5	SJ-5	SJ-5	SJB-1	SJB-2	SJB-2	SJB-2									

	_	_	_	_	_		_	_	_	-		_						_			_	_				
Time	1030	1030	1030	1030	1030	1030	1030	1005	1005	1005	1005	1015	1015	1015	1015	1015	1015	1015	730	730	730	730	1120	1120	1100	of 23
Sulfide (mg/L)	0	0	0	0	0	0	0																	٠		Sheet 9 of 23
Salinity (ppt)	36.3	36.3	36.4	36.4	36.5	36.5	36.5	36.2	36.2	36.2	36.2	35.2	35.9	36	36.1	36.1	36.3	36.3	33.9	33.9	35.7	36	33.1	33.6	32.8	
DO (mg/L)	6.15	6.05	5.82	5.58	5.38	5.27	5.34	5.83	5.84	5.83	4.97	6.19	6.15	5.46	5.32	5.19	5.09	4.53	5.36	5.4	5.28	5.26	5.91	6.04	5.64	
pH (STD)	8.39	8.39	8.38	8.38	8.38	8.38	8.37	8.37	8.36	8.36	8.35	8.41	8.44	8.4	8.39	8.39	8.39	8.35	8.33	8.32	8.31	8.3	8.37	8.39	8.34	
Temp (C)	29.48	29.36	28.99	28.85	28.64	28.52	28.52	29.84	29.82	29.7	29.62	30.16	29.8	29.48	29.17	28.99	28.91	28.85	29.36	29.27	28.79	28.78	30.44	30.26	30.69	
Station Month Day Year Round Rep Split Depth (m) Secchi (m) Temp (C) pH (STD) DO (mg/L)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	6.0	6.0	6.0	6.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	9.0	9.0	0.8	
Depth (m)	0.5	2	4	9	8	10	11.5	0.5	1	2	2.8	0.5	2	4	9	8	10	11.3	0.5	1	2	3.1	0.5	1.1	0.5	
Split	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	1	-	1	-	-	F	-	
Rep	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	-	-	-	-	-	
Round	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Year	92	92	95	92	95	92	92	92	92	98	92	92	92	92	95	92	92	92	92	92	92	92	95	92	92	
Day	2	9	5	10	10	10	0	10	10	10	10	13	13	13	13	13	13	13	10	5	10	10	12	12	12	
Month	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
Station	SJB-3	SJB-4	SJB-4	SJB-4	SJB-4	SJB-5	TL-1	TL-1	TL-1	TL-1	TL-2	TL-2	TL-3													

ø	o l	o l	္င္တု	्रा	ွှု	စ္ကု	0	्।	ा	ري ا	ابد	ريا	o	ွှု	008	854	854	854	854	854	854	854	854	854	940	23
Time	1100	1100	1030	1030	1030	1030	1010	1010	1010	845	845	845	800	8	8	8	82	8	8	88	8	8	8	86	6	10 of
Sulfide (mg/L)	•		•	•		٠			٠						٠							٠				Sheet 10 of 23
Salinity (ppt)	32.9	32.8	30.8	32.4	34.5	34.8	29.4	31.2	33.6	36.2	36.2	36.2	36.2	36.2	36.2	35.8	35.8	35.8	35.9	35.9	36	36.1	36.1	36	9.8	
DO (mg/L)	5.64	5.64	4.95	4.3	1.42	1.98	4.87	1.94	0.94	5.93	5.88	5.79	5.89	5.85	5.84	6.21	6.3	6.41	6.37	5.98	5.26	5.51	5.2	5.11	2.6	
pH (STD)	8.34	8.34	8.25	8.23	8.11	8.2	8.3	8.19	7.97	8.49	8.49	8.47	8.48	8.48	8.46	8.52	8.53	8.54	8.53	8.51	8.47	8.48	8.47	8.45	7.77	
Temp (C)	30.67	30.67	30.99	31.11	30.36	30.04	31.57	31.22	31.32	28.5	28.52	28.35	28.35	28.35	28.33	29.22	29.15	29.11	29.13	29.01	28.94	28.89	28.91	28.87	26.19	
Secchi (m)	9.0	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5							3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	0.2	
Split Depth (m)	-	1.2	0.5	-	2	2.8	0.5	-	1.5	0.5	6	18.8	0.5	6	18	0.5	-	2	3	4	2	9	7	7.5	0.5	
Split	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Ŀ	Ŀ	
Rep	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Ŀ	-	-	-	-	Ŀ	-	
Round	2	2	2	2	2	2	2	2	2	က	m	က	m	6	6	6	က	6	3	6	က	က	6	6	6	'
Year	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	92	95	95	95	95	95	95	95	95	╄	4
Day	12	12	12	12	12	12	12	12	12	24	24	24	24	24	24	31	31	3	31	3	31	31	<u>E</u>	<u></u>	27	4
Month	7	7	7	7	7	-	_	-	-	^	7	-	-	-	-	-	Ŀ	-	-	7	_	-	L	-	-	
Station Month Day Year Round Rep	TL-3	TL-3	17-4	TL-4	TL-4	TL-4	11-5	TI-5	TI-5	A0-1	A0-1	A0-1	A0-2	A0-2	A0-2	107	<u>ن</u>	10	2	نَ	2	- -	1-5-1	5	MP.1	IA

	T	_	_	1	_	_	T .	_	_	_	_	T	_	_	-	<del>-</del>	T.c	T.c	T.C	I.c.	Lo	Te	16	T.e		-
Time	940	940	940	940	900	906	8	900	906	940	940	845	845	840	840	840	1150	1150	1150	1150	1150	1150	1150	1000	1000	of 23
Sulfide (mg/L)					9	9	9	9	9			0	0													Sheet 11 of 23
Salinity (ppt)	24	35.3	35.6	35.4	17.5	32.9	35.5	35.6	35.4	28.4	28.3	29.5	29.4	0.1	0.1	0.1	35.8	35.8	35.8	35.8	36	36.6	36.1	17.1	17.2	
Station Month Day Year Round Rep Split Depth (m) Secchi (m) Temp (C) pH (STD) DO (mg/L)	0.05	0.21	0.47	0.75	0.12	0.04	0.05	90.0	0.12	3.4	3.38	6.64	6.65	4.26	4.26	4.26	5.72	5.67	5.62	5.44	4.66	4.68	4.71	6.07	5.95	
pH (STD)	7.68	8.05	8.04	8.03	7.72	7.93	7.56	7.56	7.62	8.62	8.61	9.18	9.14	7.96	96.7	8.01	8.47	8.47	8.47	8.46	8.44	8.45	8.45	8.42	8.41	
Temp (C)	28.44	29.46	29.19	29.11	27.84	30.04	29.42	29.31	29.31	29.17	29.18	29.82	29.82	25.78	25.78	25.78	29.29	29.25	29.15	29.05	28.91	28.75	28.68	30.2	30.16	
Secchi (m)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	8.0	0.8	
Depth (m)	1	2	3	3.5	0.5	1	2	3	3.4	0.5	1	0.5	6.0	0.5	1	2	0.5	2	4	9	8	10	11.6	0.5	-	
Split	1	-	-	-	-	-	1	1	1	1	1	1	1	-	-	1	-	-	-	-	-	-	-	-	-	
Rep	1	1	-	1	-	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	1	-	-	
Round	3	8	က	3	3	3	3	3	3	3	3	3	3	3	3	3	3	က	3	3	3	3	3	6	က	
Year	96	96	98	92	92	92	92	92	92	92	92	92	92	95	92	92	92	92	92	92	92	92	92	95	92	
Day	27	27	27	27	27	27	27	27	27	25	25	25	25	27	27	27	24	24	24	24	24	24	24	26	26	
Month	7	7	4	7	7	7	_	7	7	_	7	7	^	7	7	7	7	7	7	7	7	7	7	7	7	
Station	MP-1	MP-1	MP-1	MP-1	MP-2	MP-2	MP-2	MP-2	MP-2	P.1-1	PL-1	PL-2	PL-2	PN-1	PN-1	PN-1	SA-1	SC-1	SC-1							

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Time	1000	1000	1000	1000	1000	1000	1000	1000	810	810	810	835	835	832	915	915	915	900	900	90	940	940	940	940	940	2 of .
Sulfide (mg/L)	•	•	•	٠		٠							٠							·			٠	•		Sheet 12 of 23
Salinity (ppt)	18.2	25.1	26.9	29.8	30.1	30.3	30.5	30.5	14.9	14.9	14.8	15	15.2	15.2	16.2	16.2	16.1	16.2	16.2	16.2	16.1	16.2	19	26.7	27.7	
pH (STD) DO (mg/L)	4.17	0.03	0.01	0.02	0.02	0.02	0.03	0.1	6.53	6.35	6.01	5.34	2.54	2.54	6.17	6.2	6.34	4.38	4.24	4.45	4.65	4.53	1.57	0.01	0.02	
(GTS) Hq	8.21	7.82	7.91	7.65	7.57	7.35	7.29	7.28	8.73	8.7	8.65	8.28	8.11	7.94	8.57	8.57	8.55	8.14	8.14	8.14	8.24	8.26	7.96	7.7	7.33	
Temp (C)	30.3	30.85	30.91	30.73	30.5	29.72	29.38	29.21	29.98	29.94	29.9	29.29	29.38	29.38	29.88	29.88	29.86	29.86	29.86	29.9	30.08	30.08	30.67	30.95	30.65	
Secchi (m)	0.8	0.8	0.8	0.8	0.8	0.8	9.0	9.0	9.0	9.0	9.0	0.7	0.7	0.7	1.8	1.8	1.8	2	2	2	1.2	1.2	1.2	1.2	1.2	
Depth (m)	2	8	4	2	9	7	80	8.3	0.5	-	1.9	0.5	-	1.2	0.5	-	1.89	0.5	-	2	0.5	-	2	8	4	
Rep Split	-	-	-	-	-	-	-	-	-	-	Ŀ	-	-	-	-	-	Ŀ	<u> </u> -	<u> -</u>	-	-	上	上	-	1	4
		-	<u> -</u>	<u> -</u>	-	Ŀ	-	-	-	-	-	-	_	Ŀ	-	Ľ	-	L	上	-	-	-	上	1	1	-
Round	3	8	۳	6	۳	8	6	m	8	6	က	۳	8	٣	٣	٣	6	6	m	6	٣	2	<u>-</u>	-	1	4
Year	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	4-	4-	╄	+-	↓_	╄-	4	+	4-	4
Day	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	3,6	26	26	26	2 2	3 2	3 8	3 2	3
Month	-	-	-	-	-	7	7	7	7	_	1	-	-	-	-	-	-	1	<u> </u>	-	_	1	1	-	1	
Station Month Day Year Round	20.1	30.1	3 5	3	200	2.5	SC-1	<u>ين</u>	S-1-1	1-10	S 1-1	21.2	21.2	21.2	0 12	2 2	3 6	3 0	4-10	\$ 1-4	21.5	3 0	ה ה	200	2	200

Time	940	915	915	915	915	915	915	915	915	915	915	1000	1000	1000	1030	1030	1030	1030	1030	1030	1030	1100	1100	1100	1100
Sulfide (mg/L)							•								0	0	0	0	0	0	0				
Salinity (ppt)	28	35.3	35.2	35.8	36	36.1	36.1	36.2	36.2	36.2	36.1	33.7	33.7	33.9	35.3	35.3	35.5	35.8	36.1	36.2	36.2	35.7	35.8	35.7	35.7
DO (mg/L)	90.0	7.18	7.18	6.84	6.19	5.85	5.85	5.67	5.69	5.67	5.65	5.85	5.77	5.67	7.18	6.85	6.55	6.2	5.6	4.85	4.79	6.13	5.97	5.87	5.44
(STD)	7.35	8.58	8.59	8.53	8.5	8.51	8.5	8.5	8.5	8.49	8.49	8.54	8.54	8.53	8.56	8.56	8.53	8.48	8.49	8.45	8.45	8.49	8.48	8.47	8.45
Temp (C)	30.34	29.48	29.41	28.99	28.72	28.68	28.56	28.5	28.48	28.46	28.48	29.56	29.54	29.6	29.34	29.32	29.22	28.99	28.77	28.7	28.6	29.86	29.82	29.76	29.66
Secchi (m)	1.2	1.3	1.3	1.3	1,3	1.3	1.3	1.3	1.3	1.3	1.3	0.5	0.5	0.5	1	1	1	1	1	1	1	0.4	0.4	0.4	0.4
Station Month Day Year Round Rep Split Depth (m)	5	0.5	2	4	9	8	10	12	14	16	16.5	0.5	1	1.9	0.5	2	4	9	8	10	11	0.5	1	2	က
Split	1	1	1	1	1	1	1	1.	1	1	1	1	-	-	-	-	1	-	1	-	-	-	-	-	-
Rep	+	-	-	1	1	1	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Round	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	9	8	3
Year	98	92	95	92	92	92	92	92	92	95	92	92	92	92	92	92	92	92	92	95	92	95	92	92	92
Day	26	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
Month	7	7	7	7	7	7	7	7	7	7	7	7	~	_	7	7	7	7	7	~	7	_	7	7	7
Station	SJ-5	SJB-1	SJB-2	SJB-2	SJB-2	SJB-3	SJB-4	SJB-4	SJB-4	SJB-4															

		_			_	_					_	_		_			- 1	<u> </u>	<u> </u>		<u> </u>			_ 1		<u></u>
Time	1130	1130	1130	1130	1130	1130	1130	735	735	735	735	735	1110	1110	725	725	1030	1030	1030	1030	1000	1000	1000	840	840	4 of 2:
Sulfide (mg/L)	•	٠		٠	٠	•		٠	٠				·	٠		٠				·		•		٠		Sheet 14 of 23
Salinity (ppt)	34.9	35.8	35.9	35.9	35.9	36	36	28.7	29	30.3	36	35.7	27.3	28.1	26.4	26.6	29.5	30.9	33.8	34.2	22.5	28.8	31.6	37.9	37.8	
pH (STD) DO (mg/L)	5.88	5.44	4.87	5.01	4.98	5.15	90'5	5.68	5.79	5.38	5.33	5.55	89.9	6.56	5.79	5.86	5.66	5.23	1.16	1.21	8.99	0.8	0.2	5.37	5.36	
pH (STD)	8.48	8.48	8.44	8.45	8.45	8.47	8.48	8.46	8.48	8.44	8.39	8.35	8.52	8.49	8.41	8.41	8.43	8.41	8.11	8.14	8.81	8.39	8.1	8.18	8.17	
Temp (C)	29.7	29.21	29.05	29.03	28.95	28.81	28.7	28.89	28.92	28.93	28.66	28.65	30.27	30.34	30.32	30.24	30.73	30.81	30.42	29.98	31.26	30.77	30.97	28.44	28.42	
Secchi (m)	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.4	0.4	0.3	0.3	9.0	9.0	9.0	9.0	4.0	4.0	4.0	18.3	18.3	
Depth (m)	0.5	2	4	9	8	10	11.5	0.5	-	2	8	3.2	0.5	-	0.5	-	0.5	-	2	2.6	0.5	-	1.3	0.5	6	
Split	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Rep	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Round	6	3	9	3	9	8	က	3	3	3	3	3	3	3	3	3	3	က	6	3	က	6	6	4	4	
Year	95	95	95	95	95	92	95	95	95	95	95	95	95	95	95	92	95	92	95	92	95	92	95	95	95	
Day	24	24	24	24	24	24	24	24	24	24	24	24	25	25	25	25	25	25	25	25	25	25	25	7	_	
Month	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	^	_	-	_	_	^	7	7	8	0	
Station Month Day Year Round	SJB-5	11-1	71-1	17-1	11.1	17-1	TL-2	TL-2	TL-3	TL-3	TL-4	TL-4	TL-4	TL-4	71.5	71.5	71-5	A0-1	A0-1							

		_																	-						_	
Time	840	800	800	800	1026	1026	1026	1026	1026	1026	1026	845	845	845	845	845	810	810	810	810	810	946	946	803	806	of 23
Sulfide (mg/L)	•	•	•			•	•		•	•	•	•	•	•	•	•	12	12	12	12	12	•	•	0	0	Sheet 15 of 23
Salinity (ppt)	37.9	37.8	37.8	37.9	37.2	37.2	37.3	37.3	37.4	37.4	37.5	28.1	29.9	36.9	37	37.1	32.7	35.7	36.7	37	37	27.6	27.6	28.1	28.1	
pH (STD) DO (mg/L)	5.2	5.26	5.26	5.01	5.05	5.05	5.02	4.76	4.36	3.99	3.78	1.9	1.82	1.29	2.61	2.82	2.68	0.17	90'0	80.0	0.13	3.7	3.59	4.5	4.41	
pH (STD)	8.16	8.16	8.16	8.13	8.16	8.16	8.16	8.15	8.11	8.07	8.07	7.65	69'4	7.82	76.7	7.99	7.79	29'2	7.72	96.9	6.97	8.49	8.45	8.7	89.8	
Temp (C)	28.36	28.25	28.25	28.19	30.16	30.06	29.98	29.68	29.48	29.42	29.44	29.31	29.38	29.15	29.11	29.09	30.26	29.72	29.15	29.01	29.91	29.88	29.86	29.8	29.8	
Secchi (m) Temp (C)	18.3	15.9	15.9	15.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0.3	0.2	0.2	
Station Month Day Year Round Rep Split Depth (m)	18.3	0.5	7.5	15.9	0.5	1	2	3	4	2	5.7	0.5	1	2	ဗ	3.3	0.5	1	2	е	3.8	0.5	1.1	0.5	0.8	
Split	1	1	1	1	1	1	1	-	1	-	-	-	1	-	1	-	-	1	-	-	-	-	F	1	-	
Rep	1	1	1	1	1	1	1	-	F	-	-	1	1	1	-	-	-	1	-	-	-	F	-	1	-	
Round	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Year	92	92	92	92	92	92	95	95	95	95	92	92	92	92	92	95	95	92	92	92	92	92	92	95	92	
Day	7	7	7	2	10	10	10	10	10	10	9	10	10	10	10	10	10	10	10	10	10	8	80	8	8	
Month	8	8	8	8	8	8	8	8	8	80	8	8	8	80	80	80	80	8	8	8	80	80	80	8	80	
Station	A0-1	A0-2	A0-2	A0-2	LC-1	1-31	1-07	LC-1	LC-1	LC-1	LC-1	MP-1	MP-1	MP-1	MP-1	MP-1	MP-2	MP-2	MP-2	MP-2	MP-2	PL-1	PL-1	PL-2	PL-2	

Time	905	905	905	1130	1130	1130	1130	1130	1130	1130	940	940	940	940	940	940	940	940	940	940	800	800	800	820	820	6 of 23
Sulfide (mg/L)	٠		•	•				٠				٠		٠	٠				٠					٠		Sheet 16 of 23
Salinity (ppt)	4.7	36.5	36.8	37.4	37.4	37.5	37.5	37.5	37.8	37.8	14.9	14.9	22.5	26.3	26.9	30.6	30.9	31.1	31.5	31.5	12.7	12.7	12.7	12.8	13	
DO (mg/L)	0.17	96.0	1.62	5.16	5.06	5.03	4.93	4.74	4	4.04	4.56	4.3	2:32	1.59	1.01	0.02	0.03	0.03	0.04	60.0	6.16	6.15	6.11	4.18	2.2	
pH (STD)	7.45	7.84	7.89	8.12	8.12	8.12	8.11	8.11	8.07	90'8	7.68	7.65	7.58	7.65	7.61	7.3	7.11	7.01	6.92	6.9	8.39	8.38	8.37	7.89	7.64	
Temp (C)	29.25	29.23	29.17	28.85	28.81	28.77	28.73	28.58	28.31	28.23	30.48	30.46	30.52	30.79	30.79	30.71	30.32	29.98	29.5	29.21.	30.22	30.22	30.2	30.24	30.46	
Secchi (m)	0.5	0.5	0.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.4	0.4	4.0	0.7	0.7	
Station Month Day Year Round Rep Split Depth (m)	0.5	-	2.1	0.5	2	4	9		9	12	0.5	-	2	3	4	5	9	7	80	8.6	0.5	1	2	0.5	-	
Split	F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<u> -</u>	
Rep	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<u> -</u>	Ŀ	Ŀ	Ŀ	-	<u> -</u>	-	-	-	-	1
Round	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	╀	1	╄	4	4	4	4	4	4	4
Year	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	86	95	95	95	95	95	95	95	95	2
Day	9	2	9	^	1	7	7	1	7	_	6	6	6	6	6	6	5	6	6	6	6	6	6	6	6	1
Month	8	8	8	8	8	@	0			0		ď	0	0	\   	0	0 0	0 0	-	8	0	000	0	000	$\downarrow$	4
Station	PN-1	P.	P.	SA-1	SC-1	5	) 	<u>ئ</u>	, C.	<u>ئ</u> ئ	3	3 3	)   	SC-1	12.	1	2	21.5	510	300						

Sulfide (mg/L) Time	. 820	. 855	. 855	. 855	. 840		. 840	. 840	. 840 . 840	. 840 . 840 . 915	. 840 . 840 . 915 . 915	. 840 . 840 . 915 . 915	. 840 . 915 . 915 . 915	. 840 . 915 . 915 . 915 . 916	. 840 . 915 . 915 . 915 . 900	840 . 840 . 915 . 915 . 916 . 900	. 840 . 915 . 915 . 915 . 900 . 900	. 840 . 915 . 915 . 915 . 900 . 900 . 900	. 840 . 915 . 915 . 915 . 900 . 900 . 900 . 900	. 840 . 915 . 915 . 915 . 900 . 900 . 900 . 900 . 900	. 840 . 915 . 915 . 915 . 900 . 900 . 900 . 900 . 900 . 900	840 840 915 915 900 900 900 900 900 900 900 90	840 915 915 916 900 900 900 900 900 900 900 90	840 840 915 915 900 900 900 900 900 900 900 90	840 840 915 915 900 900 900 900 900 900 900 90		840 915 915 915 900 900 900 900 900 900 900 900 900 900 900 900
Salinity (ppt) Sul	13.5	14	14	14	13.9	14	_	13.9	13.9	13.9	13.9 14.1 14	13.9 14.1 14 18.8 25	13.9 14.1 18.8 25 36.9	13.9 14.1 18.8 25 36.9	13.9 14.1 14 18.8 25 36.9 37.2	13.9 14.1 14 18.8 25 36.9 37.2 37.4	13.9 14.1 14 18.8 25 36.9 37.2 37.4	13.9 14.1 14 18.8 25 36.9 37.2 37.4 37.6	13.9 14.1 14 18.8 25 36.9 37.2 37.4 37.6	13.9 14.1 14.1 18.8 25 36.9 37.2 37.4 37.6 37.6	13.9 14.1 14.1 18.8 25 36.9 37.2 37.4 37.6 37.7 37.7	13.9 14.1 14.1 18.8 25 36.9 37.2 37.4 37.6 37.7 37.7 37.7	13.9 14.1 14.1 18.8 25 36.9 37.2 37.4 37.6 37.7 37.7 37.7 37.7	13.9 14.1 14.1 18.8 25 36.9 37.2 37.4 37.6 37.7 37.7 37.7 37.7 32.8	13.9 14.1 14.1 18.8 25 36.9 37.2 37.4 37.6 37.7 37.7 37.7 37.7 37.7 37.7 37.7	13.9 14.1 14.1 18.8 25 36.9 37.2 37.4 37.6 37.7 37.7 37.7 37.7 37.7 37.7 37.7	13.9 14.1 14.1 18.8 25 36.9 37.2 37.2 37.7 37.7 37.7 37.7 37.7 37.7
DO (mg/L) Sali	0.19	3.33	3.38	3.46	4.77	4.82		4.84	+																		
			-	_	$\dashv$			+	H	+++	+++	++++						+++++++++++++++++++++++++++++++++++++++									
-	7.13	7.6	7.61	7.61	7.95	7.97	7 96		7.95	7.95	7.95 8 7.49	7.95 8 7.49 7.57	7.95 8 7.49 7.57 8.16	7.95 8 7.49 7.57 8.16 8.15	7.95 8 7.49 7.57 8.16 8.15	7.95 7.49 7.57 7.57 8.16 8.15 8.17	8 7.49 7.57 8.16 8.15 8.17 8.17 8.16	8 8 7.57 7.57 8.15 8.16 8.16 8.17 8.17 8.16 8.16 8.16 8.16 8.16 8.16 8.16 8.16	8 8 7.49 8.15 8.15 8.17 8.17 8.17 8.16 8.17 8.16 8.17 8.16 8.17 8.16 8.16 8.17 8.16 8.16 8.17 8.16 8.16 8.17 8.16	8 8 7.49 8.15 8.15 8.17 8.17 8.17 8.16 8.17 8.16 8.17 8.16 8.17 8.16 8.16 8.17 8.16 8.16 8.16 8.17 8.16 8.16 8.17 8.16 8.16 8.16 8.17 8.17 8.17 8.17 8.17 8.17 8.17 8.17	8 1.59 8.15 8.15 8.16 8.16 8.17 8.16 8.17 8.16 8.17 8.16 8.16 8.16 8.16 8.16 8.16 8.16 8.16	8 1.57 7.57 8.16 8.15 8.17 8.17 8.17 8.17 8.16 8.16 8.17 8.16 8.16 8.16 8.16 8.16 8.18 8.18 8.18	8 1.57 7.49 8.15 8.15 8.15 8.16 8.17 8.16 8.17 8.16 8.16 8.16 8.16 8.16 8.18 8.18 8.18	8 1.6 8.15 8.16 8.16 8.16 8.17 8.16 8.17 8.16 8.16 8.16 8.18 8.18 8.18 8.18 8.18	8 1.57 7.49 8.15 8.15 8.15 8.15 8.15 8.15 8.15 8.15	8 8.15 8.15 8.15 8.16 8.16 8.17 8.18 8.18 8.18 8.18 8.18 8.18 8.18	8 8.15 8.16 8.16 8.16 8.17 8.17 8.17 8.17 8.17 8.17 8.17 8.16 8.15 8.16 8.18 8.18 8.18 8.18 8.18 8.18 8.18
) d	30.95	30.61	30.59	30.59	30.3	30.3	30 28	24:00	30.59	30.59	30.59 30.59 31.03	30.59 30.59 31.03 30.97	30.59 30.59 31.03 30.97 29.4	30.59 30.59 31.03 30.97 29.4	30.59 30.59 31.03 30.97 29.4 29.19 28.91	30.59 30.59 31.03 30.97 29.4 29.19 28.91 28.91	30.59 30.59 30.59 30.97 29.4 29.19 28.91 28.72	30.59 30.59 30.59 30.97 29.4 29.19 28.91 28.91 28.72 28.85	30.59 30.59 30.59 30.97 29.19 28.91 28.72 28.72 28.42 28.42	30.59 30.59 30.59 30.97 29.19 28.91 28.91 28.72 28.5 28.42 28.5 28.35	30.59 30.59 30.97 30.97 29.4 29.19 28.72 28.72 28.35 28.35	30.59 30.59 30.97 29.4 29.19 28.72 28.72 28.72 28.72 28.35 28.35	30.59 30.59 30.97 30.97 29.4 29.19 28.72 28.72 28.72 28.35 28.35 28.35	30.59 30.59 30.97 30.97 29.4 29.19 28.72 28.72 28.72 28.35 28.35 28.35 28.35 29.44	30.59 30.59 30.69 31.03 30.97 29.4 28.72 28.72 28.72 28.35 28.35 28.35 28.35 28.35 29.44	30.59 30.59 30.97 29.4 29.19 28.72 28.72 28.72 28.72 28.35 28.35 28.35 29.44 29.44 29.44	30.59 30.59 30.59 30.97 29.4 28.72 28.72 28.72 28.72 28.35 28.35 28.35 29.44 29.44 29.46
Secon (m)	0.7	1.8	1.8	1.8		1.1	-:		0.8	0.8	0.8	0.8	0.8 0.8 0.8 1.5	0.8 0.8 0.8 1.5	0.8 0.8 0.8 1.5 1.5	0.8 0.8 0.8 1.5 1.5 1.5	0.8 0.8 0.8 1.5 1.5 1.5 1.5 1.5	0.8 0.8 0.8 1.5 1.5 1.5 1.5 1.5	0.8 0.8 0.8 1.5 1.5 1.5 1.5 1.5 1.5 1.5	0.8 0.8 0.8 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	0.8 0.8 0.8 1.5 1.5 1.5 1.5 1.5 1.5 1.5	0.8 0.8 0.8 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	0.8 0.8 0.8 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 0.7	0.8 0.8 0.8 1.5 1.5 1.5 1.5 1.5 1.5 1.5 0.7	0.8 0.8 0.8 1.5 1.5 1.5 1.5 1.5 1.5 1.5 0.7	0.8 0.8 0.8 1.5 1.5 1.5 1.5 1.5 1.5 1.5 0.7 0.7	0.8 0.8 0.8 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5
nep Spiit Deptii (m) Secchi (m) Temp (C)	1.3	0.5	-	8.	ç.	-	2.1	-	0.5	1 0.5	0.5	2 2 2.5	0.5 1 2 2.5 2.5 0.5	0.5 2 2.5 0.5	0.5 2 2.5 0.5 4	0.5 2 2.5 0.5 4 4	0.5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0.5 2 2.5 2.5 2.5 4 4 4 4 4 10 10	0.5 1 1 2 2.5 2.5 2.5 2.5 2.5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0.5 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0.5 2 2.5 2.5 2.5 2.5 4 4 4 4 4 4 6 6 6 6 7 10 10 10 10 10 10 10 10 10 10	0.5 2.5 2.5 2.5 0.5 6 6 8 8 8 10 11 12 13 13 13 13 13 13 13 13 13 13 13 13 13	0.5 2 2.5 2.5 2.5 4 4 4 4 6 6 8 8 8 10 11 12 13 13 13 14 16 16 16 16 16 16 16 16 16 16	0.5 2 2.5 2.5 2.5 4 4 4 4 6 6 8 8 8 10 11 12 13 13 14 16 16 16 16 16 16 16 16 16 16	0.5 2 2.5 2.5 2 4 4 4 6 6 8 8 8 10 11 12 13 14 15 16 16 17 17 17 17 17 17 17 17 17 17	0.5 2 2.5 0.5 0.5 0.5 10 11 14 15.9 0.5 0.5 0.5 0.5 0.5 0.5 0.5 10 10 10 10 10 10 10 10 10 10	0.5 2 2.5 2.5 2 3 4 4 4 4 6 8 8 8 10 11 11 11 11 11 11 11 11 11
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L	4	4	4	* .	•	† ·	4	•	4 4	4 4 4	4 4 4	4 4 4 4	4 4 4 4 4	4 4 4 4 4	4 4 4 4 4 4	4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
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¢	n   0	»   c	»   °	0	, 0	, (	3	٥	σ σ	თ თ თ	o o o o	0 0 0 0	00000	6 6 6 6 7 7 1	6 6 6 7 7 7	6 6 6 7 7 7 7	6 6 6 7 7 7 7	9 9 9 7 7 7 7 7 7 7	9 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	9 9 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	6 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	6 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	9 9 9 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	9 9 9 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	9 9 9 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	9 9 9 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7	9 9 9 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
٥	• •	٥	٥	۵	) a		•	α	∞ ∞	<b>ω ω</b> α	<b>∞ ∞</b> ∞ ∞	<b>ω ω ω ω</b>	<b>ω</b> ω ω ω ο	<b>ω ω ω ω ω ω</b>	<b>ω ω ω ω ω ω</b> α	& & & & & & & & & & & & & & & & & & &	<b>ω ω ω ω ω ω ω ω</b>	<b>ω</b> ω ω ω ω ω ω ω ω	8 8 8 8 8 8 8 8	<b>ω ω ω ω ω ω ω ω ω ω</b> ω ω							
A C.1.2	2 2	2 2	21.3	51.4	8.1.4	2 2	1 2	Ċ	SJ-5	SJ-5 SJ-5	S 5-5 5-5 5-5	SJ-5 SJ-5 SJ-5	SJ-5 SJ-5 SJ-5 SJ-5 SJ-8-1	SJ-5 SJ-5 SJ-5 SJ-5 SJB-1	SJ-5 SJ-5 SJ-5 SJ-7 SJB-1	SJ-5 SJ-5 SJ-5 SJ-7 SJ-8-1 SJ-8-1	SJ-5 SJ-5 SJ-5 SJ-8-1 SJ-8-1 SJ-8-1	SJ-5 SJ-5 SJ-5 SJ-8-1 SJ-8-1 SJ-8-1	SJ-5 SJ-5 SJ-5 SJ-8-1 SJ-8-1 SJ-8-1 SJ-8-1	S.J.5 S.J.5 S.J.8-1 S.J.B-1 S.J.B-1 S.J.B-1 S.J.B-1	S.J.5 S.J.5 S.J.8-1 S.J.B-1 S.J.B-1 S.J.B-1 S.J.B-1 S.J.B-1	S.J.5 S.J.5 S.J.8-1 S.J.B-1 S.J.B-1 S.J.B-1 S.J.B-1 S.J.B-1	S.J.5 S.J.5 S.J.8-1 S.J.B-1 S.J.B-1 S.J.B-1 S.J.B-1 S.J.B-1 S.J.B-1 S.J.B-1	S.J.5 S.J.5 S.J.8-1 S.J.B-1 S.J.B-1 S.J.B-1 S.J.B-1 S.J.B-1 S.J.B-1 S.J.B-1	S.J.5 S.J.5 S.J.8-1 S.J.B-1 S.J.B-1 S.J.B-1 S.J.B-1 S.J.B-1 S.J.B-1 S.J.B-1 S.J.B-1	SJ-5 SJ-5 SJ-6 SJ-7 SJ-8-1 SJ-8-1 SJ-8-1 SJ-8-2 SJ-8-2 SJ-8-2 SJ-8-2 SJ-8-2 SJ-8-2 SJ-8-2 SJ-8-2 SJ-8-2 SJ-8-2 SJ-8-1 SJ-	SJ-5 SJ-5 SJ-5 SJ-1 SJ-1 SJ-1 SJ-1 SJ-1 SJ-1 SJ-1 SJ-1

	1 -	T =	_	T =	_	+	T	T	_	_	_	_	_	_	,	_	_	_	_	_	_	_		_		_
Time	1000	1000	1000	1000	1000	1035	1035	1035	1035	1100	1100	1100	1100	1100	1100	1100	730	730	730	730	730	1146	1146	1123	1123	of 23
Sulfide (mg/L)	0	0	0	0	0																					Sheet 18 of 23
Salinity (ppt)	37.4	37.5	37.6	37.7	37.8	37.3	37.3	37.4	37.4	36.1	37.3	37.4	37.4	37.5	37.7	37.6	34	34.1	34.2	34.6	36	31.2	31.3	29.8	29.8	
DO (mg/L)	5.18	4.66	4.55	4.4	4.01	4.64	4.6	4.59	4.52	4.51	4.71	4.5	4.26	4.22	4.22	4.23	4.19	4.2	4.27	4.36	4.6	5.41	5.42	4.87	4.87	
(STD)	8.14	8.11	8.11	8.11	8.08	8.07	8.07	8.08	8.07	8.08	8.11	8.11	8.09	80.8	80.8	80.8	8.05	8.06	8.05	8.06	8.08	90'8	90'8	8.01	8.01	
Temp (C)	28.79	28.68	28.56	28.39	28.27	30.36	30.34	29.38	29.27	28.93	28.72	28.58	28.54	28.48	28.42	28.42	29.03	29.03	29.03	29.01	28.77	30.79	30.71	31.2	31.13	
Rep Split Depth (m) Secchi (m)	1.7	1.7	1.7	1.7	1.7	1.3	1.3	1.3	1.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.7	0.7	0.7	9.0	9.0	9.0	9.0	
Depth (m)	4	9	8	10	11.3	0.5	-	2	2.4	0.5	2	4	9	8	10	10.3	0.5	-	2	3	3.6	0.5	8.0	0.5	1	
Split	1	1	-	1	1	-	-	-	1	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Rep	1	1	1	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Round	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Year	92	95	95	95	92	92	95	92	92	92	92	92	92	92	92	92	92	92	95	95	92	92	95	92	92	
Day	7	7	_	-	7	^	~	~	7	7	7	7	~	7	~	7	7	~	~	7	7	8	<b>∞</b>	<u></u>	8	
Month	8	8	8	8	8	80	8	8	80		8		<b>®</b>		<b>®</b>		8	8	<b>®</b>	8	8	∞			8	
Station Month Day Year Round	SJB-3	SJB-3	SJB-3	SJB-3	SJB-3	SJB-4	SJB-4	SJB-4	SJB-4	SJB-5	SJB-5	SJB-5	SJB-5	SJB-5	SJB-5	SJB-5	17-1	TL-1	TL-1	11	1-1	TL-2	TL-2	TL-3	TL-3	

		<u></u>			_						_		_	_		_	110			_	_					6
Time	1100	1100	1100	1100	1100	1100	1100	1010	1010	1010	835	835	835	750	150	750	1125	815	815	815	815	745	745	745	745	of 2:
Sulfide (mg/L)	•	•		•	•	•				•				•	•	•		•	•	•	•	12	12	12	12	Sheet 19 of 23
Salinity (ppt)	28.2	33.9	36.1	36.2	36.2	8.36	36.3	21.4	29.1	34.1	37	37.1	37.2	37.1	37.2	37.2	•	32.1	32	36.1	36.2	28.3	35.2	36.1	36.4	
DO (mg/L)	3.97	0.1	80.0	90.0	90.0	0.04	0.04	3.77	0.16	90.0	5.03	4.98	4.77	5.1	5.14	4.46		0.03	0.03	0.03	90.0	0.05	0.07	0.08	0.1	
pH (STD)	8.12	8.05	6.7	7.81	7.43	7.21	6.88	8.19	7.96	7.58	8.3	8.3	8.29	8.28	8.29	8.24	•	7.76	7.8	28.7	7.92	7.55	99'2	7.02	7.01	
Temp (C)	30.75	29.93	29.62	16.72	27.52	27,15	27.13	31.3	30.83	30.54	29.09	29.03	28.97	28.88	28.91	28.79	•	30.28	30.01	29.62	29.66	29.72	30.02	29.9	29.58	
Station Month Day Year Round Rep Split Depth (m) Secchi (m) Temp (C) pH (STD) DO (mg/L)	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.4	0.4	0.4	17.5	17.5	17.5	16.5	16.5	16.5	3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
Depth (m)	0.5	2	4	9	8	10	12	0.5	1	1.4	0.5	8.5	17.5	0.5	8	16.5		0.5	1	2	3.1	0.5	1	2	3	
Split	1	1	1	1	1	1	1	1	1	ı	1	٦	1	1	1	1	1	1	1	1	1	1	ı	1	1	
Rep	1	1	1	1	1	1	1	1	1	1	-	-	1	1	1	1	1	l	1	l	l	l	ı	ī	ı	
Round	4	4	4	4	4	4	4	4	4	4	5	5	2	5	5	2	5	5	5	2	5	5	5	5	5	
Year	98	92	92	92	98	92	92	92	98	92	92	92	98	98	98	98	92	98	98	98	98	92	98	98	92	
Day	8	8	8	8	8	8	8	8	8	8	22	22	22	22	22	22	28	23	23	23	23	23	23	23	23	
Month	8	8	8	8	8	8	8	8	8	8	8	8	80	8	æ	8	8	8	8	8	8	8	8	8	80	
Station	TL-4	TL-4	TL-4	TL-4	TL-4	TL-4	TL-4	TL-5	TL-5	TL-5	A0-1	A0-1	A0-1	A0-2	A0-2	A0-2	LC-1	MP-1	MP-1	MP-1	MP-1	MP-2	MP-2	MP-2	MP-2	

Time	745	825	825	825	750	750	830	830	830	1200	1200	1200	1200	1200	1200	1200	925	925	925	925	925	925	925	925	925	of 23
Sulfide (mg/L)	12	•	•		1	1		•					٠								٠		•		•	Sheet 20 of 23
Salinity (ppt)	36.5	24.8	27.4	27.4	26	26.2	3.9	35.2	36.2	36.6	36.5	36.6	36.8	36.9	37	37.1	15	15.1	22.7	25.5	27.7	29.4	30.9	31.3	31.5	
DO (mg/L)	0.19	99'0	0.2	0.18	2.86	2.94	0.03	0.03	90'0	80'9	60.9	6.03	4.95	4.84	4.38	3.57	4.63	4.36	0.23	0.14	0.02	0.01	0.01	0.01	0.01	
pH (STD)	6.97	8.05	8.04	8.04	8.7	8.7	7.6	7.84	7.88	8.35	8.35	8.35	8.28	8.26	8.24	8.18	8.1	8.06	7.62	9.7	7.67	7.73	7.18	7.05	7.01	
Temp (C)	29.46	30.06	30.32	30.34	28.96	28.95	28.12	29.72	29.68	29.56	29.46	29.42	29.15	29.13	29.15	29.16	29.4	29.36	30.54	30.91	31.44	31.15	30.3	29.8	29.44	
Secchi (m)	0.4	0.3	0.3	0.3	0.2	0.2	0.5	0.5	0.5	2	2	2	2	2	2	2	0.8	0.8	9.0	0.8	0.8	9.0	0.8	0.8	0.8	
Split Depth (m)	3.5	0.5	-	1.2	0.5	0.7	0.5	-	1.8	0.5	2	4	9	8	10	11.8	0.5	-	2	3	4	2	9	7	8	
Split	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Ŀ	
Rep	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Ŀ	
Round	2	2	2	2	2	22	2	2	5	2	5	2	ß	2	2	2	2	2	2	2	2	2	2	2	2	1
Year	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	4
Day	23	24	24	24	24	24	23	23	23	22	22	22	22	22	22	22	21	21	21	21	2	2	2	2	2	
Station Month Day Year Round	8	8	80	8	8	8	8	8	8	80	000	8	80	∞	8	8	8	80	∞	80	8	8	8	80	α	,
Station	MP-2	PL-1	PL-1	PL-1	PL-2	PL-2	P.	PN-1	PN-1	SA-1	SC-1	SC-1	SC-1	SC-1	SC-1	SC-1	SC-1	SC-1	Ü							

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Time	925	741	741	741	800	800	845	845	845	820	820	820	900	900	900	900	902	905	905	905	902	905	902	902	905	of 23
Sulfide (mg/L)			•										•				٠									Sheet 21 of 23
Salinity (ppt)	31.4	13.5	13.5	13.9	14.2	14.2	14.8	14.8	14.9	14.7	14.7	14.7	14.6	14.6	23.8	26	36.5	36.7	36.9	37.1	37.1	37.2	37.1	37.2	37.1	
DO (mg/L)	0.02	6.44	6.45	5,45	4.42	3.7	2.39	2.14	0.61	3.44	3.37	3.4	5.5	3.66	0.05	0.12	5.05	4.86	4.62	4.83	4.84	4.87	4.86	4.86	4.83	
(STD)	7	8.57	8.56	8.44	8.26	8.18	7.93	7.88	69'2	8.1	8.1	8.09	8.41	8.13	7.16	7.54	8.3	8.28	8.26	8.29	8.29	8.3	8.29	8.29	8.29	
Temp (C)	29.25	28.66	28.66	29.36	29.61	29.7	29.29	29.27	29.31	29.23	29.23	29.24	29.23	29.07	31.01	31.38	29.76	29.52	29.42	29.19	29.17	29.11	29.11	29.11	29.09	
Station Month Day Year Round Rep Split Depth (m) Secchi (m)	9.0	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	8.0	0.8	0.8	0.8	2	2	2	2	2	2	2	2	2	
Depth (m)	8.8	0.5	1	1.8	0.5	1	0.5	1	1.5	0.5		1.8	0.5	1	2	2.7	0.5	2	4	9	8	10	12	14	15.6	
Split	1	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Rep	-	-	-		-	-	-	-	-	-	1	1	-	1	-	1	1	1	1	1	1	1	-	1	+	
Round	5	5	5	5	22	2	5	5	5	5	2	5	5	5	5	5	5	5	5	5	5	5	5	5	2	
Year	92	92	92	92	92	92	92	92	92	92	98	92	92	92	92	92	92	92	92	95	92	98	92	- 38	92	
Day	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	22	22	22	22	22	22	22	22	22	
Month	8	80	80	80	œ	80	æ	80	80	8	8	8	8	8	80	8	8	8	8	8	8	8	8	8	8	
Station	SC-1	5J-1	SJ-1	SJ-1	SJ-2	SJ-2	SJ-3	SJ-3	SJ-3	SJ-4	SJ-4	SJ-4	SJ-5	SJ-5	SJ-5	5.1-5	SJB-1									

	-		_	01	ਨਾ	o I	01	οТ	οl	ा	ा	ा	οl	ा	ा	0	0	0	्रा	0	စ္က	ဂ္ဂါ	ဂ္ဂါ	ा	0	2
Time	940	940	940	1000	1000	1000	1000	1000	1000	1000	1000	1050	1050	1050	1050	1050	1120	1120	1120	1120	1120	1120	1120	720	720	2 of .
Sulfide (mg/L)	٠	•	•	0	0	0	0	0	0	0	0			•	٠										•	Sheet 22 of 23
Salinity (ppt)	31	36.2	36.3	35.8	36.5	36.6	36.7	36.7	36.9	37	37	36.7	36.7	36.7	36.7	36.6	36.4	36.4	36.7	36.8	36.9	37	37	28.9	30.2	
DO (mg/L)	9	4.21	4.1	6.48	5.95	5.04	4.88	4.53	3.72	2.57	2.67	4.95	4.9	4.92	5.37	5.08	5.16	4.93	4.61	4.1	3.7	3.21	2.97	4.66	4.74	
(GTS) Hq	8.41	8.25	8.24	8.35	8.34	8.3	8.29	8.27	8.22	8.13	8.12	8.24	8.24	8.24	8.27	8.25	8.26	8.26	8.24	8.23	8.2	8.16	8.14	8.25	8.26	
Temp (C)	29.52	30	29.96	29.78	29.56	29.34	29.27	29.29	29.13	28.99	28.95	30.71	30.65	30.71	30.28	29.74	30.08	30.1	29.83	29.4	29.27	29.13	29.11	29.19	29.44	
Secchi (m)	-	-	-	2	2	2	2	2	2	2	2	1.7	1.7	1.7	1.7	1.7	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.7	0.7	
Split Depth (m)	0.5	-	1.5	0.5	2	4	9	80	10	12	12.8	0.5	-	2	3	3.3	0.5	2	4	9	8	01	10.4	0.5	-	
Split	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Rep	٦	-	-	-	-	-	-	-	Ŀ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Round	2	2	2	2	2	2	2	5	2	22	2	2	ß	2	2	2	2	2	6	2	2	2	2	2	2	4
Year	95	95	95	95	95	95	95	95	95	95	95	95	92	95	95	95	95	4-	╀-	95	+-	+	╀-	+-	1	4
Day	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	4
Month	8	8	·	8	∞	<sub>∞</sub>	·	-		∞	·	-	œ	$\perp$	L	Ļ	╀	$\downarrow$	L	╀	1	$\perp$	L	┸	ď	<u>'</u>
Station Month Day Year Round	SJB-2	SJB-2	S.JB-2	SJB-3	SJB-3	SJB-3	SJB-3	SJB-3	SJB-3	SJB-3	SJB-3	SJB-4	S.18-4	S.JB-4	SJB-4	S.IR-4	S.IB.5	S.B.5	S.JB-5	S.18-5	SJB-5	S.B.S	S. IB. 5	F	F	

8 22 95 5 1				101			Samuely (ppt)	duline inight	E
	1	2	0.7	29.18	8.21	4.55	33.5		720
8 22 95 5 1	-	က	0.7	28.95	8.19	4.58	35.4		720
8 22 95 5 1	1	3.8	0.7	28.81	8.18	4.82	36.3		720
8 24 95 5 1	-	0.5	0.4	29.72	8.12	3.87	31.4		1000
8 24 95 5 1	1	0.7	0.4	29.79	8.11	3.8	31.5		1000
8 24 95 5 1	1	0.5	0.4	29.34	8.2	4.47	28.7		940
8 24 95 5 1	-	1	0.4	29.34	8.2	4.46	28.7		940
8 24 95 5 1	-	0.5	9.0	30.15	8.09	4.05	28.1		900
8 24 95 5 1	-	2	9.0	29.8	8.01	0.09	34.5		900
8 24 95 5 1	-	4	9.0	29.05	7.91	90.0	36.2		900
8 24 95 5 1	-	9	9.0	27.83	7.73	0.05	36.2		900
8 24 95 5 1	1	8	9.0	27.3	7.4	0.05	36.2		900
8 24 95 5 1	-	10	9.0	27.1	7.15	0.04	36.3		900
8 24 95 5 1	-	12.4	9.0	27.15	7.05	0.03	36.3		900
8 24 95 5 1	-	0.5	0.3	30.24	8.39	0.62	26.8		845
8 24 95 5 1	-	1	0.3	30.78	7.86	0.03	34		845
8 24 95 5 1	-	1.3	0.3	30.67	7.7	0.04	34.8		845
								Sheet 23 of 23	of 23

Station Month Day Vear Event Rep Split Depth (m) Seaching Station Month Day Vear Event Rep Split Depth (m) Seaching T-3           T-3         8         6         95         2         1         1         0            T-3         8         6         95         2         1         1         0.0            T-4         8         17         95         3         1         1         0.0            T-4         8         17         95         3 </th <th>Depth (m) Secchi (m)  0 0 0 0 0.1</th> <th>ıtions</th> <th>Temp (C) pH (STD)</th> <th></th> <th></th> <th></th> <th></th> <th></th>	Depth (m) Secchi (m)  0 0 0 0 0.1	ıtions	Temp (C) pH (STD)					
Event Rep Split 2 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 1 1 1			_	111				
2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3				TD) DO (mg/L)	Salinity (ppt)	DO (mg/L) Salinity (ppt) Sulfide (mg/L)	Discharge (m'/sec)	ill e
8         6         95         2         1         1           8         6         95         2         1         1           8         6         95         2         1         1           8         6         95         2         1         1           8         6         95         2         1         1           8         6         95         2         1         1           8         6         95         2         1         1           8         6         95         2         1         1           8         17         95         3         1         1           8         17         95         3         1         1           8         17         95         3         1         1           8         18         95         3         1         1           8         18         95         3         1         1           8         18         95         3         1         1           8         19         95         3         1         1           8	0.1		27.75 8.38	8 5.65			0.414	1200
8       6       95       2       1       1         8       6       95       2       1       1         8       6       95       2       1       1         8       6       95       2       1       1         8       6       95       2       1       1         8       6       95       2       1       1         8       6       95       2       1       1         8       17       95       3       1       1         8       17       95       3       1       1         8       18       95       3       1       1         8       18       95       3       1       1         8       18       95       3       1       1         8       18       95       3       1       1         8       19       95       3       1       1         8       19       95       3       1       1         8       19       95       3       1       1         8       19       95       3	0.1	. 2	27.51 8.35	5.55		٠	0.529	1230
8       6       95       2       1       1         8       6       95       2       1       1         8       6       95       2       1       1         8       6       95       2       1       1         8       6       95       2       1       1         8       6       95       2       1       1         8       17       95       3       1       1         8       17       95       3       1       1         8       18       95       3       1       1         8       18       95       3       1       1         8       18       95       3       1       1         8       18       95       3       1       1         8       18       95       3       1       1         8       19       95       3       1       1         8       19       95       3       1       1         8       19       95       3       1       1         8       19       95	0.1	. 2	27.55 8.12	2 5.91		•	4.416	1300
8       6       95       2       1       1         8       6       95       2       1       1         8       6       95       2       1       1         8       6       95       2       1       1         8       6       95       2       1       1         8       17       95       3       1       1         8       17       95       3       1       1         8       17       95       3       1       1         8       18       95       3       1       1         8       18       95       3       1       1         8       18       95       3       1       1         8       18       95       3       1       1         8       19       95       3       1       1       1         8       19       95       3       1			7.97	71 6.17			4.83	1330
8     6     95     2     1       8     6     95     2     1     1       8     6     95     2     1     1       8     6     95     2     1     1       8     6     95     2     1     1       8     17     95     3     1     1       8     17     95     3     1     1       8     18     95     3     1     1       8     18     95     3     1     1       8     18     95     3     1     1       8     19     95     3     1     1       8     19     95     3     1     1       8     19     95     3     1       8     19     95     3     1       8     19     95     3     1       8     19     95     3     1       8     19     95     3     1       8     19     95     3     1	,	2	27.95 7.9	9 6.05		•	4.232	1400
8     6     95     2     1       8     6     95     2     1     1       8     6     95     2     1     1       8     6     95     2     1     1       8     17     95     3     1     1       8     17     95     3     1     1       8     18     95     3     1     1       8     18     95     3     1     1       8     18     95     3     1     1       8     19     95     3     1       8     19     95     3     1       8     19     95     3     1       8     19     95     3     1       8     19     95     3     1       8     19     95     3     1       8     19     95     3     1	5 6	2	-	5.84		•	3.634	1500
8     6     95     2     1       8     6     95     2     1     1       8     6     95     2     1     1       8     17     95     3     1     1       8     17     95     3     1     1       8     18     95     3     1     1       8     18     95     3     1     1       8     18     95     3     1     1       8     19     95     3     1       8     19     95     3     1       8     19     95     3     1       8     19     95     3     1       8     19     95     3     1       8     19     95     3     1			╀	6.13		٠	2.162	1600
8     6     95     2     1       8     6     95     2     1     1       8     6     95     2     1     1       8     17     95     3     1     1       8     17     95     3     1     1       8     18     95     3     1     1       8     18     95     3     1     1       8     18     95     3     1     1       8     19     95     3     1       8     19     95     3     1       8     19     95     3     1       8     19     95     3     1       8     19     95     3     1       8     19     95     3     1	5 6		╀	+			1.794	1700
8     6     95     2     1       8     6     95     2     1     1       8     17     95     3     1     1       8     17     95     3     1     1       8     17     95     3     1     1       8     18     95     3     1       8     18     95     3     1       8     19     95     3     1       8     19     95     3     1       8     19     95     3     1       8     19     95     3     1       8     19     95     3     1       8     19     95     3     1	5 6		+	+			0.483	1800
8     6     95     2     1       8     6     95     2     1     1       8     17     96     3     1     1       8     17     95     3     1     1       8     18     95     3     1     1       8     18     95     3     1     1       8     19     95     3     1       8     19     95     3     1       8     19     95     3     1       8     19     95     3     1       8     19     95     3     1       8     19     95     3     1	9		+	+			0.368	1900
8 6 95 2 1 8 17 95 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0		+	+			0.345	2000
8 17 95 3 1 8 17 95 3 1 8 17 95 3 1 1 8 95 3	0		+	+				900
8 17 95 3 1 8 18 95 3 1 8 18 95 3 1 8 18 95 3 1 8 18 95 3 1 8 18 95 3 1 8 18 95 3 1 8 19 95 3 1 8 19 95 3 1 8 19 95 3 1 8 19 95 3 1 1 8 19 95 3 1 1 8 19 95 3 1 1 8 19 95 3 1 1 8 19 95 3 1 1	0.3		28.1 8.01	$\dashv$				2
8 18 95 3 1 8 18 95 3 1 8 18 95 3 1 1 8 18 95 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.5		27.85 8.	8.17 6.54				200
8 18 95 3 1 1 8 8 18 95 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.7		27.77 8.	8.34 6.6				2 2
8 1 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	90		27.91 8.	8.45 6.51		٠		009
8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	200		$\vdash$	8.37 6.71				1200
8 18 95 3 1 1 8 8 19 95 3 1 1 1 8 95 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3		+	+		•		1700
8 18 95 3 1 1 8 8 19 95 3 1 1 9 95 3 1 1 9 95 3 1 1 9 95 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	a'i		+	+				2200
8 19 95 3 1 8 19 95 3 1 1 8 19 95 3 1 1 1 8 19 95 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3		+	+				2400
8 19 95 3 1 8 19 95 3 1 8 19 95 3 1	9.6		+	+				900
8 19 95 3 1 8 19 95 3 1	9.0	•	+	+	-			1000
8 19 95 3	9.0		27.75 8.	8.41 6.53				200
	9.0		27.7 8.	8.51 6.62		•		1400
10 05	9.0		27.67 8	8.44 6.49				1800
0 0 0	80		$\vdash$	8.37 6.52				2200
2 65 5	200		+	8 47 6.45				2400
T-4 8 19 95 3 1 1	2.5	-	+				4S	Sheet 1 of 3

April Deptit Intil Security Security (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)					1	Daneth /ml	Coochi (m)	Tamp (C)	(GTD)	DO (ma/L)	Salinity (ppt)	Sulfide (mg/L)	Discharge (m3/sec)	Time
1         0.18         bottom         28.21         8.7b         6.2b   .	bottom         28.21         8.75         6.37            bottom         29.29         8.1         6.37            0.3         31.03         32.6         6.4            bottom         28.29         8.28         4.83            bottom         27.9         8.01         2.53            0.1         27.36         8         6.91            bottom         27.36         7.73         5.52            bottom         27.26         8.03         6.73            bottom         29.99         8.05         7.62            0.3         28.42         7.75         0.5            0.35         32.19         7.73         1.01	Ven	-	e P	Mile	Deptin (m)	Secon (III)	ioi diiio		500			2 0295	
1         0.8         bottom         29.29         8.1         6.37          0.3072           1         1.72         0.3         31.03         32.6         6.4          0.3072           1         0.49         bottom         27.9         8.01         2.53          0.04802           1         0.5         bottom         27.17         7.83         5.82          0.04802           1         0.5         bottom         27.17         7.83         6.91          0.3965           1         0.5         bottom         27.26         8.03         6.73          0.644           1         0.7         bottom         27.25         8.03         6.73          0.6406           1         0.7         bottom         29.99         8.05         7.62          0.04802           1         0.49         0.3         28.42         7.75         0.5          0.04802           1         1.73         0.35         32.19         7.73         1.01          0.0099	bottom         29.29         8.1         6.37            0.3         31.03         32.6         6.4            bottom         28.29         8.28         4.83            bottom         27.9         8.01         2.53            bottom         27.17         7.83         5.82            bottom         27.36         8         6.91            bottom         27.96         7.73         5.52            bottom         27.25         8.03         6.73            bottom         29.99         8.05         7.62            0.3         28.42         7.75         0.5            0.35         32.19         7.73         1.01	-	_		-	0.18	bottom	28.21	8.75	97.9			2070.7	
1         1.72         0.3         31.03         32.6         6.4 </td <td>0.3         31.03         32.6         6.4         .           bottom         28.29         8.28         4.83         .           bottom         27.9         8.01         2.53         .           bottom         27.17         7.83         5.82         .           0.1         27.36         8         6.91         .           bottom         27.36         7.73         5.52         .           bottom         27.26         8.03         6.73         .           bottom         29.99         8.05         7.62         .           0.3         28.42         7.75         0.5         .           0.35         32.19         7.73         1.01         .</td> <td>-</td> <td>_</td> <td>-</td> <td>-</td> <td>8.0</td> <td>bottom</td> <td>29.29</td> <td>8.1</td> <td>6.37</td> <td>•</td> <td></td> <td>0.3072</td> <td></td>	0.3         31.03         32.6         6.4         .           bottom         28.29         8.28         4.83         .           bottom         27.9         8.01         2.53         .           bottom         27.17         7.83         5.82         .           0.1         27.36         8         6.91         .           bottom         27.36         7.73         5.52         .           bottom         27.26         8.03         6.73         .           bottom         29.99         8.05         7.62         .           0.3         28.42         7.75         0.5         .           0.35         32.19         7.73         1.01         .	-	_	-	-	8.0	bottom	29.29	8.1	6.37	•		0.3072	
1         0.3         bottom         28.29         8.28         4.83          0.009           1         0.49         bottom         27.3         8.01         2.53          0.04802           1         0.5         bottom         27.17         7.83         5.82          0.0335           1         0.5         bottom         27.36         8         6.91          0.7365           1         0.7         bottom         27.26         8.03         6.73          0.644           1         0.7         bottom         27.25         8.03         6.73          0.4704           1         0.7         bottom         29.99         8.05         7.62          0.4704           1         0.49         0.3         28.42         7.75         0.5          0.04802           1         1.73         0.35         32.19         7.73         1.01          0.00999	bottom         28.29         8.28         4.83            bottom         27.17         7.83         5.82            0.1         27.36         8         6.91            bottom         27.36         8.03         6.73            bottom         27.26         8.03         6.73            bottom         29.99         8.05         7.62            0.3         28.42         7.75         0.5            0.35         32.19         7.73         1.01	-	1	-	-	1.72	0.3	31.03	32.6	6.4		٠		
1         0.49         bottom         27.9         8.01         2.53          0.04802           1         0.5         bottom         27.17         7.83         5.82          0.335           1         0.5         0.1         27.36         8         6.91          0.7965           1         0.7         bottom         27.26         8.03         6.73          0.644           1         0.7         bottom         27.25         8.03         6.73          0.4704           1         0.49         0.3         28.42         7.75         0.5          0.04802           1         1.73         0.35         32.19         7.73         1.01          0.0099	bottom         27.9         8.01         2.53            bottom         27.17         7.83         5.82            0.1         27.36         8         6.91            bottom         27.96         7.73         5.52            bottom         27.25         8.03         6.73            bottom         29.99         8.05         7.62            0.3         28.42         7.75         0.5            0.35         32.19         7.73         1.01	-		-	-	0.3	bottom	28.29	8.28	4.83			0.009	
1         0.5         bottom         27.17         7.83         5.82         .         0.35           1         0.59         0.1         27.36         8         6.91         .         0.7965           1         0.7         bottom         27.26         8.03         6.73         .         0.644           1         0.7         bottom         27.25         8.03         6.73         .         0.4704           1         0.7         bottom         29.99         8.05         7.62         .         0.4704           1         0.49         0.3         28.42         7.75         0.5         .         0.04802           1         1.73         0.35         32.19         7.73         1.01         .         0.0099	bottom         27.17         7.83         5.82         .         .           0.1         27.36         8         6.91         .         .           bottom         27.96         7.73         5.52         .         .           bottom         27.25         8.03         6.73         .         .           bottom         29.99         8.05         7.62         .         .           0.3         28.42         7.75         0.5         .         .           0.35         32.19         7.73         1.01         .         .	-		-	-	0.49	bottom	27.9	8.01	2.53			0.04802	
1         0.59         0.1         27.36         8         6.91          0.7965           1         0.7         bottom         27.36         7.73         5.52          0.644           1         0.7         bottom         27.25         8.03         6.73          0.644           1         0.7         bottom         29.99         8.05         7.62          0.4704           1         0.49         0.3         28.42         7.75         0.5          0.04802           1         1.73         0.35         32.19         7.73         1.01          0.0099	0.1         27.36         8         6.91            bottom         27.96         7.73         5.52            bottom         27.25         8.03         6.73            bottom         29.99         8.05         7.62            0.3         28.42         7.75         0.5            0.35         32.19         7.73         1.01	٦-	T	-	-	0.5	bottom	27.17	7.83	5.82			0.335	
1         0.7         bottom         27.96         7.73         5.52         .         0.644           1          bottom         27.25         8.03         6.73         .         0.4704           1         0.7         bottom         29.99         8.05         7.62         .         0.4704           1         0.49         0.3         28.42         7.75         0.5         .         0.04802           1         1.73         0.35         32.19         7.73         1.01         .         0.00099	bottom         27.96         7.73         5.52         .           bottom         27.25         8.03         6.73         .           bottom         29.99         8.05         7.62         .           0.3         28.42         7.75         0.5         .           0.35         32.19         7.73         1.01         .	-	Τ	-	-	0.59	0.1	27.36	80	6.91	٠	•	0.7965	
1         0.7         bottom         27.25         8.03         6.73         .	bottom         27.25         8.03         6.73            bottom         29.99         8.05         7.62            0.3         28.42         7.75         0.5            0.35         32.19         7.73         1.01	T		-	-	0.7	bottom	27.96	7.73	5.52	•		0.644	
1         0.7         bottom         29.99         8.05         7.62         .         0.4704           1         0.49         0.3         28.42         7.75         0.5         .         0.04802           1         1.73         0.35         32.19         7.73         1.01         .         0.0099	bottom 29.99 8.05 7.62	1	Π		-		hottom	27.25	8.03	6.73			٠	·
1         0.49         0.3         28.42         7.75         0.6         .         0.04802           1         1.73         0.35         32.19         7.73         1.01         .         0.0099	0.3     28.42     7.75     0.5     .     .       0.35     32.19     7.73     1.01     .     .		- [-		-	0.7	bottom	29.99	8.05	7.62		-	0.4704	·
1 1.73 0.35 32.19 7.73 1.01 . 0.0099	0.35 32.19 7.73 1.01	1	-   -	• •	-	0.49	0.3	28.42	7.75	0.5			0.04802	
		1	-   -	- [-	-	1.73	0.35	32.19	7.73	1.01			0.0099	·
		1											She	Sheet 3 of 3

Table B3	3									
Diel In §	itu D	ata	for L	aguna	Diel In Situ Data for Laguna San Jose	<b>ģ</b>				
Station	Month Day Year	Day	Year	Time	Temp (C)	PH (STD)	SpCond (Micro Siemens) DOSAT (%) DO (ma/l1)	DOSAT (%)	DO (ma/11	Tuch (Altin
SJ_BUOY	8	23	98	1200	30.1	8.1	22851	78.6	T T	_
SJ_BUOY	8	23	92	1215	30.1	2.0	22862	70.0	0 1	67
SJ BUOY	80	23	95	1230	30.1	۵ م	22022	70.0	5.5	27.8
SJ BUOY	α	22	96	1245	20.4	310	22310	85.7	5.9	28.1
7019	, ,	3 8	3	247	30.1	8.2	22954	88.6	6.1	28.7
1000	0 1	53	ŝ	300	30.1	8.2	22976	88.2	6.1	29.2
SO BOOK		23	95	1315	30.1	8.3	22996	93.9	6.5	29.8
SJ BUOY	80	23	92	1330	30.1	8.3	22990	96.1	6.7	29
SJ_BUOY	8	23	92	1345	30.2	8.4	23056	105.2	7.3	30.5
SJ_BUOY	8	23	92	1400	30.1	8.3	23097	100.4	7	30.7
SJ_BUOY	8	23	92	1415	30.1	8.3	23096	94.7	6.6	30.9
SJ_BUOY	8	23	92	1430	30.2	8.4	23044	114.2	7.9	30.1
SJ_BUOY	8	23	92	1445	30.2	8.4	23041	111.3	7.7	30.6
SJ_BUOY	8	23	92	1500	30.1	8.4	23013	109.8	7.6	30.1
SJ_BUOY	8	23	98	1515	30.1	8.4	23021	109 7	7.6	21
SJ BUOY	8	23	95	1530	30.1	8.5	23001	121.6	0. 0	0.10
SJ_BUOY	8	23	92	1545	30.1	8.5	22969	128	0 0	200.00
SJ_BUOY	8	23	92	1600	30.1	8.5	23011	123	2 2	30.5
SJ_BUOY	8	23	92	1615	30.1	8.5	22968	126.9	8 8	31.4
SJ_BUOY	8	23	95	1630	30.1	8.5	22944	127.7	6 8	31.8
SJ_BUOY	8	23	92	1645	30.1	8.5	22999	127.3	α	20.7
SJ_BUOY	8	23	92	1700	30.1	8.5	22968	125.5	8.7	30.6
SJ_BUOY	8	23	95	1715	30.1	8.4	23035	118.2	8.2	30.9
SJ_BUOY		23	95	1730	30	8.3	22824	106.8	7.4	36.5
									S	Sheet 1 of 9

					_	-	_		_	-	_	_	_		_		_	-	_		_	- 1	_	_	_	<u></u>
Turb (NTU)	35.4	34.6	35.7	34.3	34.5	31.8	32.7	34.4	34.5	34.2	34.1	34.6	34.7	32	34.7	34.5	34.7	35.2	34.4	34.5	32.7	33	32.3	33	32.6	Sheet 2 of 9
DO (mg/L)	7.5	80	7.3	7.3	7	9	6.8	7.2	7.1	7.9	7.8	7.7	7.6	7.5	7.5	7.4	7.5	7.4	7.3	7	9	9.9	9	6.4	6.2	
DOSAT (%)	108.2	115.5	105.3	105.6	100.5	86.2	97.6	103.6	102.2	114	112.4	110.4	109.6	108	107.6	106.6	107.1	105.3	105	100.5	86.3	94.6	85.5	91.7	88.7	
SpCond (Micro Siemens) DOSAT (%) DO (mg/L)	22697	22668	22704	22739	22721	22767	22698	22711	22702	22667	22643	22567	22545	22534	22533	22545	22564	22537	22549	22551	22618	22589	22641	22595	22606	
PH (STD)	8.3	8.4	8.3	8.4	8.3	8.3	8.3	8.3	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.3	8.3	8.3	8.3	8.3	8.2	8.2	8.2	
Temp (C)	29.9	29.9	30	30	30	30	30	30	30	30	29.9	29.9	29.8	29.8	29.8	29.8	29.8	29.8	29.7	29.8	29.8	29.7	29.8	29.7	29.8	
Time	1745	1800	1815	1830	1845	1900	1915	1930	1945	2000	2015	2030	2045	2100	2115	2130	2145	2200	2215	2230	2245	2300	2315	2330	2345	
Year	92	95	95	92	95	92	92	98	92	92	92	92	92	92	92	92	95	92	92	98	92	98	92	92	95	
Day	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	
Month Day Year	æ	8	8	8	8	80	8	80	8	8	80	∞	80	∞	ω	8	8	œ	80	80	ω	80	8	∞	8	
Station	SJ_BUOY	SJ BUOY	SJ_BUOY	SJ_BUOY	SJ BUOY	SJ_BUOY	SJ BUOY																			

_																										
Turb (NTU)	33.1	33.4	33	34.3	32.7	32.4	32.2	26.5	26.8	29.3	29.8	29.8	30	30.5	31.2	31.4	31.7	32.4	32.9	32.3	31.6	32	31.9	33.5	33.7	Sheet 3 of 9
DO (mg/L)	6.4	6.3	6.2	9	.5.7	5.8	5.8	2.1	2.3	3.2	5.2	5.2	5.1	4.7	2	2	5.2	5.4	5.5	5.5	5.5	5.4	5.4	5.2	5.2	
DOSAT (%)	91.1	89.5	88.7	85.4	81.8	83.2	82.5	29.8	33.6	45.2	73.7	74.3	73.1	67.6	71	70.8	73.5	77.5	78.8	78	78.8	9.92	77.6	73.5	73.6	
Temp (C) PH (STD) SpCond (Micro Siemens) DOSAT (%) DO (mg/L)	22610	22624	22613	22629	22646	22631	22616	22847	22723	22661	22617	22602	22608	22613	22615	22638	22635	22632	22643	22650	22661	22670	22700	22707	22721	
PH (STD)	8.2	8.2	8.2	8.2	8.2	8.2	8.2	9.7	7.7	8	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.2	8.2	8.2	8.2	8.2	8.2	8.1	8.1	
Temp (C)	29.7	29.7	29.7	29.7	29.7	29.7	29.7	30	29.9	29.8	29.6	29.6	29.6	29.6	29.6	29.6	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	
Time	0	15	30	45	100	115	130	145	200	215	230	245	300	315	330	345	400	415	430	445	200	515	530	545	009	
Year	92	98	92	95	92	92	98	98	92	95	92	98	98	92	95	92	92	92	92	92	98	92	92	98	92	
Day	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	
Month Day	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
Station	SJ_BUOY	sa_Buoy	SJBUOY	SJ_BUOY																						

	_	_	_	_	_	_	_	_	_		7	_		_	-	_	_	_	_	_		_		_	_	_
Turb (NTU)	33.5	33.5	33.6	33.4	33.2	32.4	31	30.4	30.6	30.4	30.2	30.4	31.3	32.1	31.9	29.9	34.3	36.5	34.1	34.4	32.1	37.7	35	34	30	Sheet 4 of 9
DO (mg/L)	5.2	5.2	5.2	4.9	4.8	4.9	4.9	4.6	4.4	5.1	4.6	5	5.1	5.3	4.8	4.4	52	5.8	9	9	6.1	5.9	6.4	6.5	6.3	
DOSAT (%)	74.1	74.7	74.3	70.4	68.9	70.4	6.69	65.6	63.4	72.4	66.1	71.3	72.1	75.4	68.5	62.3	71.5	82.3	86.2	86.3	9.98	83.9	92.4	93.4	90.5	
Temp (C) PH (STD) SpCond (Micro Siemens) DOSAT (%) DO (mg/L) Turb (NTU)	22732	22722	22728	22737	22759	22759	22781	22798	22807	22810	22824	22791	22744	22749	22712	22714	22642	22613	22609	22599	22624	22584	22595	22628	22755	
PH (STD)	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8	8	8.1	8	8.1	8.1	8.1	8	8	8.1	8.2	8.3	8.2	8.2	8.1	8.2	8.2	8.2	
Temp (C)	29.5	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.5	29.4	29.4	29.4	29.5	29.5	29.5	29.5	29.6	29.7	29.7	29.7	29.8	29.8	29.8	29.9	
Time	615	630	645	200	715	730	745	800	815	830	845	006	915	930	945	1000	1015	1030	1045	1100	1115	1130	1145	1200	1215	
Year	98	92	92	92	92	92	92	92	92	92	98	92	92	98	98	98	92	98	98	92	92	92	92	92	92	
Day	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	
Month Day Year	8	8	8	8	8	8	8	8	8	8	8	8	8	80	8	8	8	80	80	8	8	8	8	80	80	
Station	SJ_BUOY	SJ_BUOY	SJ BUOY	SJ_BUOY	SJBUOY	SJ_BUOY	SJBUOY	SJ_BUOY	SJ_BUOY	SJBUOY	SJ_BUOY															

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Turb (NTU)	29.4	29.4	28.3	29.3	29.2	30.6	34.5	31	34.3	31.3	35	33.4	33.5	32.1	33.8	31.2	27.5	27.6	27.7	27.1	28.1	28.4	12.9	15.5	14.9	Sheet 5 of 9
DO (mg/L)	6.4	6.1	9	6.1	6.4	6.9	9.9	7.6	6.2	6.2	7.2	6.7	7	7.8	8.5	7.3	7.5	8.2	7.4	7.3	7.8	7.9	5.5	7	7.1	
DOSAT (%)	92	87.7	85.5	87.7	92.5	99.4	94.2	108.5	89.1	88.9	104.1	96.3	100.5	111.7	122.3	104.6	108.2	117.5	106.8	106	112.4	113.3	80.2	100.8	103.5	
PH (STD) SpCond (Micro Siemens) DOSAT (%) DO (mg/L)	22764	22716	22729	22695	22663	22652	22646	22651	22758	22725	22655	22684	22673	22719	22686	22784	22854	22855	22912	22944	22871	22798	23260	23158	23153	
	8.2	8.1	8.1	8.1	8.2	8.2	8.1	8.3	8.1	8.2	8.3	8.2	8.2	8.3	8.4	8.3	8.3	8.4	8.3	8.3	8.3	8.3	8.3	8.4	8.5	
Temp (C)	29.8	29.8	29.8	29.8	29.9	29.9	29.9	29.9	29.9	29.9	30.1	29.9	30	30	30.1	30	30	30	30	30.1	30	30	30.3	30.3	30.3	
Time	1230	1245	1300	1315	1330	1345	1400	1415	1430	1445	1500	1515	1530	1545	1600	1615	1630	1645	1700	1715	1730	1745	1200	1215	1230	
Year	95	95	92	95	95	95	95	98	95	95	95	95	95	95	95	98	95	98	95	95	92	95	95	95	95	
Day	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	23	23	23	
Month Day Year	8	8	80	80	80	8	8	80	80	80	80	80	80	8	8	8	<u>_</u>	∞		80	00	8		80	8	
Station	SJ_BUOY	SJ BUOY	SJ BUOY	SJ BUOY	SJ BUOY	SJ BUOY	SJ BUOY	SJ DOCK	SJ DOCK	SJ DOCK																

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Turb (NTU)	11.9	15.5	5	10.8	6.4	10.1	3.4	8.6	7.6	6.8	15	17.3	10.4	6.8	9.5	10.3	7.5	6.3	12.2	8.1	8.8	٥	1.4	8.4	11.3	Sheet 6 of 9
DO (mg/L)	6.9	6.2	6.3	6.4	6.2	7.3	6.1	5.5	5.7	5.8	2	5.1	5.6	5.8	5.8	5.9	9	5.7	9	5.8	5.3	3.4	2	3.9	2	
DOSAT (%)	100	8.68	91.4	92.7	90.6	106.4	88.3	80.2	82.4	84.9	72.9	73.8	81.8	83.8	83.9	85.6	86.7	83.5	87.9	83.9	76.8	48.8	72.1	56.7	73.3	
PH (STD) SpCond (Micro Siemens) DOSAT (%) DO (mg/L) Turb (NTU)	23280	23345	23458	23388	23453	23367	23514	23596	23549	23529	23670	23690	23692	23716	23686	23675	23696	23699	23694	23705	23737	23743	23743	23758	23764	
PH (STD)	8.4	8.4	8.3	8.4	8.3	8.4	8.3	8.2	8.2	8.3	8.1	8.1	8.2	8.2	8.2	8.2	8.2	8.2	8.3	8.3	8.2	7.9	7.9	8	8.2	
Temp (C)	30.4	30.3	30.3	30.3	30.3	30.4	30.3	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.4	30.4	
Time	1245	1300	1315	1330	1345	1400	1415	1430	1445	1500	1515	1530	1545	1600	1615	1630	1645	1700	1715	1730	1745	1800	1815	1830	1845	
Year	95	95	95	92	92	95	95	95	95	95	95	95	92	95	95	98	95	95	95	95	95	95	95	95	95	
Day	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	
Month Day	8	80	80	8	8	8	8	8	8	8	8	۵	8	8	8	8	·	8	8	8	8	8	8	8	8	
Station	SJ DOCK	SJ DOCK	SJ DOCK	SJ DOCK	SJ DOCK	SJ DOCK	SJ DOCK	SJ DOCK	SJ DOCK	SJ DOCK	SJ DOCK	SJ DOCK														

Station	Month Day	Day	Year	Time	Temp (C)	PH (STD)	Temp (C) PH (STD) SpCond (Micro Siemens) DOSAT (%) DO (mg/L) Turb (NTU)	DOSAT (%)	DO (mg/L)	Turb (NTU)
SJ_DOCK	8	23	98	1900	30.4	8.2	23774	67.9	4.7	7.5
SJ_DOCK	8	23	95	1915	30.4	8.1	23772	66.4	4.6	6.2
SJ_DOCK	8	23	98	1930	30.4	7.9	23709	54.9	3.8	4.4
SJ_DOCK	8	23	98	1945	30.4	8.2	23518	78.5	5.4	6.1
SJ_DOCK	8	23	98	2000	30.5	8.2	23463	84.5	5.8	10
SJ_DOCK	8	23	92	2015	30.4	8.2	23427	84.6	5.8	10.5
SJ_DOCK	8	23	92	2030	30.4	8.3	23343	86.9	9	10.2
SJ_DOCK	8	23	92	2045	30.2	8.3	23396	88.8	6.1	8.5
SJ_DOCK	8	23	92	2100	30.3	8.2	23402	84.7	5.8	10.7
SJ_DOCK	8	23	92	2115	30.2	8.2	23408	82.9	5.7	7.1
SJ_DOCK	8	23	92	2130	30.2	8.2	23419	98	5.9	10.2
SJ_DOCK	8	23	92	2145	30.2	8.2	23407	77.8	5.4	3.9
SJ_DOCK	8	23	98	2200	30.2	8	23419	30	2.1	0
SJ_DOCK	80	23	98	2215	30.1	9.7	23361	37.4	2.6	0
SJ_DOCK	8	23	92	2230	30.1	7.8	23257	53.8	3.7	0
SJ_DOCK	8	23	92	2245	30.1	8.1	23198	66.8	4.6	11.6
SJ_DOCK	8	23	98	2300	30	8.1	23096	70.1	4.9	5.7
SJ_DOCK	8	23	92	2315	29.9	8.1	23094	70.7	4.9	5
SJ_DOCK	8	23	92	2330	30.2	8.1	23133	72.4	5	6.1
SJ_DOCK	8	23	92	2345	30.2	8.1	23178	72.8	മ	9
SJ_DOCK	8	24	92	0	30.2	8.1	23220	71	4.9	5.8
SJ DOCK	8	24	92	15	30.3	8.1	23239	69	4.8	6.5
SJ_DOCK	8	24	92	30	30.2	8.1	23300	67.4	4.7	5.7
SJ_DOCK	8	24	92	45	30.1	8	23352	62.8	4.3	9.7
SJ_DOCK	8	24	92	100	29.9	7.9	23218	45.9	3.2	11.6
									0,	Sheet 7 of 9

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Turb (NTU)	10.3	5.8	10.8	5.8	18	8.1	6.9	8.2	7.2	6.9	5.3	6.7	6.1	9.6	6.5	6.7	7.3	5.6	5.3	10.7	10.9	6.3	8.8	7.5	6.7	Sheet 8 of 9
DO (mg/L)	3.8	4	4.3	3.1	3.9	4.2	4.4	3.8	4.1	4.2	4.3	4.1	3.8	3.1	3.5	3.9	2.6	3	3.1	2.9	2.2	2.1	2.4	2	2	
DOSAT (%)	54.2	56.8	61.6	44.3	55.3	59.6	63.6	55.2	58.5	59.6	61.2	58.9	53.7	44	49.6	55.8	37.5	42.8	43.9	41.6	31.2	30.2	33.7	28.3	28.8	
SpCond (Micro Siemens) DOSAT (%) DO (mg/L) Turb (NTU)	23101	23007	23028	22962	22978	23038	23087	23100	23028	23101	23053	23054	23143	23052	22948	23005	22969	22968	22908	22905	22935	22850	22905	22869	22916	
PH (STD)	7.9	7.9	8	7.9	8	8	8	7.9	8	8	8	80	80	7.8	7.9	80	7.9	7.8	7.8	7.8	7.8	7.7	7.8	7.8	7.7	
Temp (C)	29.8	29.8	29.7	29.6	29.7	29.7	29.9	29.8	29.9	29.6	29.5	29.6	29.6	29.6	29.6	29.6	29.5	29.4	29.4	29.4	29.4	29.3	29.4	29.4	29.3	
Time	115	130	145	200	215	230	245	300	315	330	345	400	415	430	445	200	515	530	545	009	615	630	645	700	715	
Year	92	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	92	95	95	95	
Day	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	
Month	۵	<b>∞</b>	8	-	-	8	8		8	80	80	8	80	8	8	<b>∞</b>	80	8	80	80	8	∞	8	80	8	
Station	SJ DOCK	SJ DOCK	SJ DOCK	SJ DOCK	SJ DOCK	SJ DOCK	SJ DOCK	SJ DOCK	SJ DOCK	SJ DOCK	SJ DOCK	SJ DOCK	SJ DOCK	SJ DOCK	SJ DOCK	S.J DOCK	SJ DOCK	S.J DOCK	SJ DOCK	SJ DOCK	S.I. DOCK					

				-						
Sheet 9 of 9	,									
5.9	4.7	67	22756	8	29.4	915	92	24	8	SJ_DOCK
3.8	4.3	61.7	22747	7.9	29.4	900	95	24	8	SJ_DOCK
5.7	3.3	47.3	22887	7.8	29.4	845	95	24	8	SJ_DOCK
6.4	4.5	63.8	22927	80	29.4	830	92	24	8	SJ_DOCK
6.3	4.6	65.8	22923	80	29.4	815	95	24	8	SJ_DOCK
2.4	2.8	39.7	22880	7.6	29.3	800	95	24	8	SJ_DOCK
0	2	27.8	22870	7.6	29.3	745	92	24	8	SJ_DOCK
0	1.3	18.6	22876	7.5	29.3	730	95	24	8	SJ_DOCK
Turb (NTU)	DO (mg/L)	DOSAT (%)	PH (STD) SpCond (Micro Siemens) DOSAT (%) DO (mg/L)	PH (STD)	Temp (C)	Time	Year	Day	Month Day	Station

## Appendix C Water Chemistry and Biological Data for Tributary and OpenWater Sampling Stations

Table C1	C1											
Nitrog	Jen Cor	ncent	ration	ns for	Tribut	tary S	amp	ling l	Nitrogen Concentrations for Tributary Sampling Locations			
Station	Station Month	Day	Year	Time	Туре	Type Event	Rep	Split	NO3N (mg/L)	NH3N (mg/L)	TKN (mg/L)	DTKN (mg/L)
1.1	7	5	92		1		-	-	0.54	0.48	0.55	0.36
듸	7	17	92		-	٠	1	1	0.2	1.2	0.81	0.53
1-2	7	2	92		-	٠	-	-	0.41	0.19	0.34	0.29
T-2	7	17	95		1		-	-	0.1	0.2	0.32	0.27
T-3	7	5	92		1		-	-	0.2	1.3	1.2	0.87
T-3	7	17	92		1		-	-	0.52	5.3	2.8	2.5
T-4	7	2	98		-		-	-	0.23	0.37	0.19	0.29
T-4	7	17	98		1		-	-	0.59	0.7	0.65	0.49
T-5	7	5	92		1		-	-	0.24	1.9	1.3	1.1
T-5	7	17	92		-		1	1	0.08	5.5	2.8	2.7
T-6	7	5	92		-		1	1	0.01	0.87	1.1	0.68
T-6	7	17	92		-	·	1	-	0	2.4	1.3	1.3
T-6	7	17	92		-	٠	2	1	0	2.5	1.5	1.2
T-7	7	2	92		-		-	-	0.01	4.2	2.5	1.7
T-7	7	17	92		-		1	1	0.01	1.3	0.91	0.71
T-8	7	2	95		-	·	1	1	0.01	90.0	1.4	9.0
T-8	7	17	95		1		1	1	0	90.0	0.82	0.79
T-3	8	9	92	1200	2	2	-	-	0.87	2.98	2.7	
T-3	8	9	92	1230	2	2	-	-	1.2	2.4	3.5	
T-3	8	9	92	1300	2	2	1	1	0.19	2.57	2.9	•
												Sheet 1 of 4

ng/L)																	T						Ī
DTKN (mg/L)		•				٠					•												
TKN (mg/L)	1.1	0.7	0.8	2.3	1.4	1.2	1.7	1.6	1.6	1.2	0.85	0.79	1.4	0.76	0.73	0.62	0.75	96.0	0.86	1	0.62	0.08	
NH3N (mg/L)	0.32	0.4	0.16	1.8	1.3	1.4	1.3	1.1	1.6	1.6	0.52	0.58	0.74	0.74	0.59	0.62	0.73	0.87	0.78	1.4	0.7	0.11	
NO3N (mg/L)	0.25	0.31	0.28	0.29	0.23	0.27	0.3	1.2	0.71	1.4	0.45	0.46	0.48	0.45	0.49	0.47	0.49	0.5	0.52	1.4	0.4	0.44	
Split	-	-	2	1	1	-	-	1	1	-	-	-	-	-	-	2	1	1	-	-	1	-	
Rep	-	-	1	1	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	
Event Rep	2	2	2	2	2	2	2	2	7	4	4	4	4	4	4	4	4	4	4	4	-	-	
Type	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Time	1330	1400	1400	1500	1600	1700	1800	1900	2000	1600	800	1400	2000	2300	800	800	1200	1600	2000	800	1500	1530	
Year	95	95	92	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	92	95	95	
Day	9	9	9	9	9	9	9	9	9	17	18	18	18	18	19	19	19	19	19	20	14	14	
Month	80	8	8	8	8	8	8	8	8	80	80	80	8	8	8	8	8	8	8	8	7	7	
Station	T-3	T-3	1-3	1-3	1-3	T-3	T-3	T-3	1-3	Ţ.3	1.3	1.3	1.3	1.3	T-3	T-3	1-3	1-3	1.3	1.3	T-4	1-4-T	

na/L)			T	T			T	Γ	T							Π	Π			Γ	Π	Γ	
DTKN (mg/L)								•															
TKN (mg/L)	0.14	0.26	0.43	0.14	0.03	0.02	0.55	0.27	0.47	0.53	0.38	0.56	0.41	0.46	0.64	1	0.74	0.49	0.77	0.76	0.71	0.5	
NH3N (mg/L)	0.19	0.25	0.45	0.2	0.23	0.25	0.46	0.24	0.29	0.25	0.28	0.27	0.3	0.24	0.21	0.57	0.49	0.62	0.57	0.56	0.54	0.33	
NO3N (mg/L)	0.47	0.46	0.51	0.53	0.56	0.58	1.3	0.84	1.1	1.2	1.2	1.2	1.1	1.1	1.2	-	-	0.97	1	96.0	1	1.2	
Split	-	-	-	-	-	2	-	-	-	-	-	-	1	2	-	-	1	1	1	1	1	1	
Rep	-	-	-	1	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	
Type Event Rep	-	-	1	1	1	-	က	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Туре	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Time	1600	1630	1700	1730	1800	1800	900	1500	2100	009	1200	1700	2200	2200	0	009	1000	1400	1800	2200	0	009	
Year	98	92	92	92	92	92	98	92	92	92	95	92	95	92	92	92	92	95	95	95	95	92	
Day	14	14	14	14	14	14	17	17	17	18	18	18	18	18	19	19	19	19	19	19	2	20	
Station Month Day	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
Station	T-4																						

Station	Month	Day	Year	Time	Type	Type Event Rep	Rep	Split	NO3N (mg/L)	NH3N (mg/L)	TKN (mg/L)	DTKN (mg/L)
T-4	8	20	92	009	2	3	-	2	1.2	0.34	0.43	•
T-4	8	20	92	1000	2	3	-	-	1.2	0.4	0.27	•
T-4	6	-	92	1400	2	5	-	1	0.94	69.0	0.8	•
T-4	6	-	92	1430	2	5	1	1	0.48	0.54	0.7	٠
T-4	6	-	92	1430	2	9	٦	2	0.5	0.58	0.7	•
T-4	6	-	92	1500	2	9	-	1	0.58	0.55	0.6	٠
T-4	6	-	92	1530	2	2	-	1	0.71	0.47	0.6	•
T-4	6	-	92	1600	2	2	-	1	0.57	0.32	0.5	•
T-4	6	-	95	1630	2	2	-	-	0.61	0.23	0.4	•
T-4	6	-	95	1700	2	5	-	-	0.58	0.2	0.3	•
T-4	6	-	92	1800	2	5	-	1	0.54	0.24	0.3	٠
T-4	6	-	92	1900	2	9	1	1	0.62	0.22	0.5	٠
T-4	6	-	95	2000	2	2	-	1	9.0	0.25	0.3	٠
T-4	6	-	92	2100	2	2	1	-	0.59	0.28	0.3	
T-4	6	2	92	009	2	2	1	1	0.74	0.42	0.4	•
												Sheet 4 of 4

Table C2	22											
Phospt	Phosphorus Concentrations for Tributary Sampling Stations	oncen	tration	s for	Tribu	tary S	ampli	ing S	tations			
Station	Month	Day	Year	Time	Time Type	Event	Rep	Split	TP (mg/L)	TIP (mg/L)	TDP (mg/L)	DIP (mg/L)
T-1	7	5	92		1		-	-	0.185	0.17	0.154	0.112
T-1	7	17	95		1		-	-	0.315	0.256	0.231	0.223
T-2	7	5	92	•	1		-	-	0.665	0.772	0.118	0.08
T-2	7	17	98	•	1		-	-	0.14	0.143	0.059	0.028
T-3	7	5	92		1		-	-	0.535	0.345	0.28	0.227
T-3	7	17	92		1		1	-	0.595	0.433	0.049	0.374
T-4	7	5	92		1		-	-	0.258	0.26	0.155	0.17
T-4	7	17	92	·	-		-	-	0.193	0.234	0.154	0.139
T-5	7	2	98		1		1	-	0.325	0.255	0.168	0.188
1-5	7	17	92	٠	1		-	-	0.527	0.382	0.29	0.331
1-6	7	5	92		1	٠	1	-	0.298	0.232	0.08	0.192
1-6	7	17	92		1	٠	1	1	0.539	0.488	0.341	0.317
T-6	7	17	92		1		2	-	0.539	0.462	0.362	0.323
T-7	7	5	92		-	·	1	1	0.74	0.605	0.358	0.298
T-7	7	1	95	·	-		1	1	0.496	0.414	0.152	0.328
T-8	7	2	95		-		1	1	1.49	1.24	0.858	99.0
T-8	7	17	92		-	•	1	1	1.94	1.6	1.12	0.314
T-3	8	9	92	1200	2	2	1	1	0.48		0.265	
T-3	80	9	92	1230	2	2	-	1	0.408		0.245	
T-3	8	9	95	1300	2	2	-	-	1.42		0.355	
												sheet 1 of 4

Month	Day	Year	Time	Type	Type Event	Rep	Split	TP (mg/L)	TIP (mg/L)	TDP (mg/L)	DIP (mg/L)
T	9	95	1330	2	2	-	-	0.46		0.1	•
Т	9	95	1400	2	2	-	1	0.702		0.175	
	9	95	1400	2	2	1	.2	0.702		0.118	
	9	95	1500	2	2	1	1	0.74		0.76	•
_ m	9	95	1600	2	2	1	1	9.0	·	0.215	
<b>_</b>	9	95	1700	2	2	1	1	0.378		0.082	
	9	95	1800	2	2	-	-	0.425		0.12	
	9	95	1900	2	2	-	-	0.315	٠	0.145	
	9	95	2000	2	2	-	-	0.14		0.045	
	1,	95	1600	2	4	-	-	0.215		0.137	•
	2	95	800	2	4	-	-	0.378	٠	0.133	
	18	95	1400	2	4	-	-	0.268		0.097	
	182	95	2000	2	4	-	_	0.328		0.108	
	180	95	2300	2	4	-	-	0.355	٠	0.115	
	19	95	800	2	4	-	1	0.32		0.144	
	19	95	800	2	4	-	2	0.29		0.138	
<sub>∞</sub>	100	95	1200	2	4	-	1	0.262		0.145	
	19	95	1600	2	4	-	1	0.292	•	0.135	
	19	95	2000	2	4	-	-	0.31		0.124	
0	8	95	800	2	4	-	٦	0.235		0.116	
_	4	95	1500	2	-	-	-	0.306		0.084	
-	14	95	1530	2	1	-	-	0.334	-	0.064	
											sheet 2 of 4

	Τ	Π	Г	Г	Г	Г								Г						Г		Г	\ \
DIP (mg/L)			•									•							•				7
TDP (mg/L)	0.084	0.09	0.083	0.063	0.061	0.061	0.114	0.079	0.075	0.104	0.09	0.147	0.107	0.099	0.097	0.14	0.144	0.11	0.131	0.149	0.114	0.075	
TIP (mg/L)	•												•						٠	•	٠	•	
TP (mg/L)	0.3	0.264	0.316	0.278	0.254	0.237	0.194	0.239	0.211	0.21	0.22	0.208	0.187	0.196	0.201	0.248	0.243	0.254	0.256	0.265	0.278	0.168	
Split	1	1	1	1	1	2	1	1	-	-	1	1	1	2	-	1	1	1	1	1	1	1	
Rep	1	1	1	1	1	1	1	1	ı	1	1	1	1	1	1	1	1	1	1	1	1	1	
Time Type Event	1	1	1	1	1	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Type	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Time	1600	1630	1700	1730	1800	1800	900	1500	2100	009	1200	1700	2200	2200	0	009	1000	1400	1800	2200.	0	009	
Year	92	95	95	95	92	98	95	92	98	98	98	95	92	98	92	95	95	95	95	95	92	92	
Day	14	14	14	14	14	14	17	17	17	18	18	18	18	18	19	19	19	19	19	19	20	20	
Month	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
Station	T-4	T-4	T-4	T-4	T-4	T-4	T-4	T-4	T-4	T-4	T-4	T-4	T-4										

Station	Month	Day	Year	Time Type	Type	Event	Rep	Split	TP (mg/L)	TIP (mg/L)	TDP (mg/L)	DIP (mg/L)
T-4	8	20	95	009	2	3	-	2	0.16		0.076	
T-4	8	20	92	1000	2	3	-	1	0.165		0.093	٠
T-4	6	-	92	1400	2	ည	-	1	0.184		0.092	
T-4	6	-	92	1430	2	വ	-	1	0.412	•	0.138	
T-4	6	-	95	1430	2	5	-	2	0.409		0.137	
T-4	6	-	95	1500	2	വ	-	1	0.399	٠	0.085	
T-4	6	-	95	1530	2	D.	-	-	0.295	٠	0.072	•
T-4	6	-	95	1600	2	2	-	-	0.465		0.062	
T-4	6	-	95	1630	2	5	-	-	0.334	•	0.066	
T-4	6	-	95	1700	2	5	-	-	0.288		0.037	٠
T-4	6	-	95	1800	2	2	-	-	0.313	-	0.054	•
T-4	6	-	95	1900	2	5	-	-	0.208	٠	0.063	
T-4	6	-	95	2000	2	ည	-	1	0.243	٠	0.075	
T-4	6	-	95	2100	2	5	-	-	0.217		0.073	
T-4	6	2	95	909	2	2	-	1	0.107		0.056	
												sheet 4 of 4

Carbon Concentrations for Tributary Sampling Stations           Station         Month         Day         Veat         Tipe         Fvent         Rpil         TDC (mg/L)         DIC (mg/L)         DDC (mg/L)         DDC (mg/L)         DDC (mg/L)         TDC (mg/L)         TDC (mg/L)         DDC (mg/L)         DDC (mg/L)         TDC (mg/L)         <	Table C3	ខ													
Month         Dev         Time         Type         Event         Rep         Split         TDC (mg/L)         DDC (mg/L)         DDC (mg/L)         DCC (mg/L)         TC (mg/L)         T	Carbo	n Con	centr	ation	s for 1	ribut	ary Sa	Impli	ng St	tations					
7         6         96          1         1         1         19.279         12.802         6.477         34.196         26.207           7         1         96          1         1         1         50.485         36.27         14.216         51.801         37.266           7         5         96          1         1         1         29.876         22.722         7.154         40.116         23.848           7         1         96          1         1         1         29.876         22.722         7.154         40.116         23.848           7         1         96          1         1         1         29.876         10.174         41.713         30.655           7         1         96          1         1         1         48.807         36.254         10.174         41.713         30.655           7         1         95          1         1         1         48.807         36.244         36.587         17.432           7         1         1         1         1         1         1         47.916	Station	_	Day	Year	Time	Туре	Event	Rep	Split	TDC (mg/L)	DIC (mg/L)	DOC (mg/L)	TC (mg/L)	TIC (mg/L)	TOC (mg/L)
7         1         96         -1         1         60.485         36.27         14.215         61.801         37.266           7         6         96         -1         1         1         29.876         22.722         7.154         40.116         23.488           7         1         96         -1         1         1         29.876         22.722         7.154         40.116         23.488           7         1         96         -1         1         1         29.878         28.604         10.174         41.713         30.655           7         1         96         -1         1         1         23.132         12.022         11.11         32.333         18.902           7         1         96         -1         1         1         1         23.132         10.167         41.713         30.655           7         1         96         -1         1         1         1         19.192         13.083         11.732         30.655           7         1         96         -1         1         1         1         13.149         20.244         20.176         20.244           7         1<	T-1	7	5	96		1		1	1	19.279	12.802	6.477	34,195	26.207	7.989
7         6         96          1         1         1         29.876         22.722         7.154         40.116         23.848           7         1         96          1         1         1         38.778         28.604         10.174         41.713         30.655           7         5         96          1         1         1         23.132         12.022         11.11         32.333         18.902           7         1         96          1         1         1         48.807         35.264         13.563         61.253         30.655           7         1         95          1         1         1         48.807         35.264         13.563         61.253         36.529           7         1         1         1         1         1         1         1.24.926         13.962         10.167         26.184         36.529           7         1         1         1         1         1         1.24.926         13.924         15.253         13.924         13.625         13.745           7         1         1         1         1         1	T-1	7	17	98	•	1	•	1	1	50.485	36.27	14.215	51.801	37.256	14.545
7         1         96          1         1         1         38.778         28.604         10.174         41.713         30.655           7         6         96          1         1         1         23.132         12.022         11.11         32.333         18.902           7         1         96          1         1         1         48.807         35.54         13.563         51.253         18.902           7         1         96          1         1         1         14.807         35.24         13.583         18.902           7         1         96          1         1         1         1         14.807         35.284         15.284         15.253         36.529           7         1         96          1         1         1         14.919         25.284         15.492         17.432           7         1         1         1         1         1         14.749         25.284         26.184         26.182         36.529           7         1         1         1         1         1         14.29         13.93 <t< th=""><td>T-2</td><td>7</td><td>5</td><td>96</td><td></td><td>1</td><td>•</td><td>1</td><td>1</td><td>29.876</td><td>22.722</td><td>7.154</td><td>40.116</td><td>23.848</td><td>16.269</td></t<>	T-2	7	5	96		1	•	1	1	29.876	22.722	7.154	40.116	23.848	16.269
7         6         96          1         1         1         23.132         15.022         11.11         32.333         18.902           7         17         96          1         1         48.807         35.254         13.553         51.253         36.529           7         1         9          1         1         19.192         13.908         5.284         25.657         17.432           7         1         9          1         1         1         19.192         13.908         5.284         25.657         17.432           7         1         9          1         1         1         19.192         13.908         5.284         25.657         17.432           7         1         1         1         1         1         1.1437         26.184         20.539           7         1         1         1         1         47.514         33.582         13.925         22.742           7         1         1         1         46.2         31.27         14.93         48.25         31.774           8         1         1         1	T-2	7	17	98	•	1	•	1	1	38.778	28.604	10.174	41.713	30.655	11.059
7         11         96          1         1         1         48.807         35.554         13.553         61.253         36.529           7         5         95          1         1         1         19.192         13.908         5.284         25.557         17.432           7         1         1         1         1         1         19.192         13.908         5.284         25.557         17.432           7         1         1         1         1         1         1         10.167         26.184         20.539           7         1         1         1         1         1         1         10.167         26.184         20.539           7         1         1         1         1         1         47.514         33.582         10.167         26.184         20.539           7         1         1         1         1         47.514         33.582         13.932         22.742         17.432           7         1         1         1         1         46.2         31.27         14.379         34.425         31.774           8         1         1 <t< th=""><td>T-3</td><td>7</td><td>2</td><td>98</td><td></td><td>1</td><td>•</td><td>-</td><td>1</td><td>23.132</td><td>12.022</td><td>11.11</td><td>32.333</td><td>18.902</td><td>13,431</td></t<>	T-3	7	2	98		1	•	-	1	23.132	12.022	11.11	32.333	18.902	13,431
7         5         95          1         1         1         19.192         13.908         5.284         25.557         17.432           7         1         95          1          1         1         24.926         19.842         10.167         26.184         20.539           7         1         1         1         1         24.926         19.842         10.167         26.184         20.539           7         1         1         1         1         1         47.514         33.682         13.924         33.957         22.742           7         1         1         1         1         46.2         31.27         14.93         48.725         31.774           7         1         95          1         1         1         46.2         31.27         14.93         48.725         31.774           7         1         95          1         1         1         46.2         22.431         14.93         48.725         31.774           8         1         1         1         1         29.65         22.431         14.93         48.725         31.774 <td>T-3</td> <td>7</td> <td>17</td> <td>98</td> <td>•</td> <td>-</td> <td></td> <td>-</td> <td>1</td> <td>48.807</td> <td>35.254</td> <td>13.553</td> <td>51.253</td> <td>36.529</td> <td>14.725</td>	T-3	7	17	98	•	-		-	1	48.807	35.254	13.553	51.253	36.529	14.725
7         17         95          1           1	T-4	7	2	92		1	•	-	-	19.192	13.908	5.284	25.557	17.432	8.126
7         6         96          1         1         1         31,749         22.525         9.224         33.957         22.742           7         1         96          1         1         47.514         33.582         13.932         49.425         34.866           7         1         96          1         1         1         46.2         31.27         14.93         48.722         34.866           7         1         96          1         1         1         29.62         22.431         14.379         36.528         28.265           7         1         96          1         1         1         29.62         22.431         14.379         36.528         28.255           7         1         95          1         1         1         29.62         22.431         14.379         36.528         28.255           7         1         95          1         1         1         25.135         11.325         29.853         29.327         38.898           7         1         96          1         1         40.605 </th <td>T-4</td> <td>7</td> <td>17</td> <td>36</td> <td>•</td> <td>1</td> <td>•</td> <td>-</td> <td>1</td> <td>24.926</td> <td>19.842</td> <td>10.167</td> <td>26.184</td> <td>20.539</td> <td>11.289</td>	T-4	7	17	36	•	1	•	-	1	24.926	19.842	10.167	26.184	20.539	11.289
7         17         95          1         1         47.514         33.582         13.932         49.425         34.856           7         1         5         95          1         1         46.2         31.27         14.93         49.425         34.856           7         17         95          1         1         29.62         22.431         14.379         36.528         28.255           7         17         95          1         1         29.62         22.053         13.256         29.853         23.327           7         17         95          1         1         1         25.135         19.169         11.932         29.853         23.327           8         6         95          1         1         1         25.135         11.932         29.725         19.376           8         6         95         1200         2         1         1         40.605         26.453         26.303         45.952         29.082           8         6         95         1300         2         1         1         40.605         26.453	T-5	7	2	98	•	1		-	-	31.749	22.525	9.224	33.957	22.742	11.215
7         6         95          1         1         46.2         31.27         14.93         48.722         31.774           7         1         95          1         1         1         29.62         22.431         14.339         48.722         31.774           7         1         1         1         1         28.665         22.053         13.225         29.853         28.255           7         5         95          1         1         1         25.135         19.169         11.932         29.725         19.376           7         1         95          1         1         1         25.135         19.169         11.932         29.725         19.376           8         6         95          1         1         1         45.291         32.139         26.303         49.339         31.399           8         6         95         1200         2         1         1         40.605         26.453         28.303         45.952         29.082           8         6         95         1300         2         2         1         1         1	T-5	7	17	92		1	٠	-	1	47.514	33.582	13.932	49.425	34.856	14.568
7         17         95          1         1         29.62         22.431         14.379         36.528         28.255           7         17         95          1         1         28.665         22.053         13.225         29.853         28.255           7         1         95          1         1         1         25.135         19.169         11.932         29.725         19.376           7         1         95          1         1         45.291         32.139         26.303         49.339         31.399           8         6         95         1200         2         1         1         40.605         26.453         28.303         45.952         29.082           8         6         95         1230         2         1         1         40.605         26.453         28.303         45.952         29.082           8         6         95         1230         2         1         1         40.605         26.453         28.303         45.952         29.082           8         6         95         1300         2         1         1         1	9-1	7	5	92		1		-	1	46.2	31.27	14.93	48.722	31.774	16.948
7         17         95          1         2         1         28.665         22.053         13.256         29.853         23.327           7         1         5         95          1         1         1         25.135         19.169         11.932         29.725         19.376           7         1         1         1         1         1         11.932         29.725         19.376           7         1         1         1         1         1         10.169         11.932         29.725         19.376           8         6         95         1         1         1         40.605         26.453         26.303         49.339         31.399           8         6         95         1200         2         2         1         1         40.605         26.453         28.303         45.952         29.082           8         6         95         1300         2         2         1         1         1                       .	1-6	7	17	92		1	•	1	1	29.62	22.431	14.379	36.528	28.255	16.545
7         5         95          1         1         1         25.135         19.169         11.932         29.725         19.376           7         17         95          1         1         1         45.291         38.122         13.667         53.222         38.898           7         1         1         1         1         45.291         32.139         26.303         49.339         31.399           8         6         95         1200         2         1         1         40.605         26.453         28.303         45.952         29.082           8         6         95         1230         2         2         1         1         1	9-1	7	17	92		1		2	-	28.665	22.053	13.225	29.853	23.327	13.053
7         17         95          1 <td>1-7</td> <td>7</td> <td>2</td> <td>92</td> <td></td> <td>1</td> <td></td> <td>1</td> <td>1</td> <td>25.135</td> <td>19.169</td> <td>11.932</td> <td>29.725</td> <td>19.376</td> <td>20.697</td>	1-7	7	2	92		1		1	1	25.135	19.169	11.932	29.725	19.376	20.697
7         5         95         1         1         1         45.291         32.139         26.303         49.339         31.399           7         17         95         1         1         1         40.605         26.453         28.303         45.952         29.082           8         6         95         1200         2         1	T-7	7	17	98	•	1		1	-	51.789	38.122	13.667	53.222	38.898	14.324
7         17         95         1         1         1         40.605         26.453         28.303         45.952         29.082           8         6         95         1200         2         1         1         1	T-8	7	5	92		1		1	1	45.291	32.139	26.303	49.339	31.399	35.881
8         6         95         1200         2         2         1         1 <t< th=""><td>T-8</td><td>7</td><td>17</td><td>98</td><td>-</td><td>1</td><td></td><td>1</td><td>-</td><td>40.605</td><td>26.453</td><td>28.303</td><td>45.952</td><td>29.082</td><td>33.74</td></t<>	T-8	7	17	98	-	1		1	-	40.605	26.453	28.303	45.952	29.082	33.74
8     6     95     1230     2     2     1     1     .	T-3	8	9	92	1200	2	2	1	1		٠				٠
8 6 95 1300 2 2 1 1	T-3	8	9	98	1230	2	2	1	-	•	•	•		•	
Sheet 1	£- <u></u> T	80	9	98	1300	2	2	-	1			•	•	•	
															Sheet 1 of 4

	_							_	_	-	_	_	_	_		_	_	_	7	-	_	_	<b>—</b>
TOC (mg/L)														·		·	•	•		-			Sheet 2 of 4
TIC (mg/L)				٠			-		·													-	
TC (mg/L)			•			·					•					·						٠	
DOC (mg/L)	٠		٠	•	•					•	•	-									٠	٠	
DIC (mg/L)	٠						·											٠	•			•	
TDC (mg/L)		٠				٠	٠					٠			•		-			•			
Split	1	1	2	-	1	1	-	1	1	1	1	1	1	1	-	2	-	-	1	1	1	1	
Rep	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	٦	
Event	2	2	2	2	2	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4	ı	-	
Туре	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	7	2	2	2	
Time	1330	1400	1400	1500	1600	1700	1800	1900	2000	1600	800	1400	2000	2300	800	800	1200	1600	2000	800	1500	1530	
Year	95	92	95	92	95	95	95	95	95	95	95	95	92	95	98	95	92	98	92	92	92	95	
Day	9	9	9	Ġ	9	9	9	9	9	17	18	18	18	18	19	19	19	19	19	20	14	14	
Month	80	8		80	80	8	80	8	8	∞	8	8	8	8		∞	80	80	8		7	_	
Station	1-3	T-3	T-3	T-3	1-3	1-3	T-3	T-3	T-3	T-3	T-3	1-3	1-4	T.4									

_	ng/L) DIC (mg/L)	ilit TDC (mg/L)	p Split	Rep	Event	ı ype	ē	Ë	_	Day Year Time	Year
			1	1	-	·	2		2	1600 2	95 1600 2
•	•		1	1		1	2 1		2	1630 2	95 1630 2
-			1	1		1	2 1		2	1700 2	95 1700 2
	٠		1	1		1	2 1	1730 2 1	_	1730	95 1730
			-	-		1	2 1		2	1800 2	95 1800 2
٠	•		2	1		1	2 1	1800 2 1		1800	95 1800
	٠		1	-		3	2 3		2	900 2	95 900 2
	•		-	1		3	2 3		2	1500 2	95 1500 2
-	٠		1	1		3	2 3		2	2100 2	95 2100 2
	٠		1	1		3	2 3	L	2	600 2	95 600 2
	·		-	1		3	2 3	_	2	1200 2	95 1200 2
	٠		-	-		3	2 3		2	1700 2	95 1700 2
			-	-		3	2 3		2	2200 2	95 2200 2
			2	-		3	2 3		2	2200 2	95 2200 2
			-	-		3	2 3	_	2	0 2	95 0 2
		-	-	_		3	2 3	-	2	600 2	95 600 2
				-		3	2 3		2	1000 2	95 1000 2
		-		-		3	2 3		2	1400 2	95 1400 2
	•	-		-		3	2 3		2	1800 2	95 1800 2
	·		_	1		8	2 3		2	2200 2	95 2200 2
	•	-		_		3	2 3		2	0 2	95 0 2
				-		3	2 3		2	600 2	95 600 2

Station	Month	Day	Year	Time	Type	Event	Rep	Split	TDC (mg/L)	DIC (mg/L)	DOC (mg/L)	TC (mg/L)	TIC (mg/L)	TOC (mg/L)
4-7	8	20	95	009	2	8	-	2		•	·			
4-4	8	20	95	1000	2	3	-	1	٠	·				
1-4	6	-	95	1400	2	5	1	1	٠					
4-7	6	-	92	1430	2	5	1	1	-					
T-4	6	-	92	1430	2	5	1	2	•					٠
T-4	6	-	92	1500	2	2	1	-		٠	٠			
4-7	6	-	95	1530	2	2	1	1						
4-7	6	-	92	1600	2	2	1	1			·	·	·	
T-4	6	-	95	1630	2	2	1	-						
4-7	6	-	92	1700	2	5	1	-	٠					
4-7	6	-	92	1800	2	5	-	-						•
T-4	6	-	95	1900	2	5	-	-			·			
4	6	-	92	2000	2	5	-	-			·			
4-7	6	-	92	2100	2	5	-	-						
1-4	6	2	95	009	2	5	-	-						
														Sheet 4 of 4

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Solids and Chlorophyll Concentrations for Tributary Sampling Stations           Station         Month         Day         Year         Time         Typ         Event         Rep         Split         TSS (mg/L)         VSS (mg/L)         CHLA (ug/L)           T.1         7         1         95          1          1         1          1         1.34           T.1         7         15         95          1          1         1         0         0         1         1.34           T.2         7         15         95          1          1	Table C4	7,4										
Month         Day         Year         Time         Type         Event         Rep         Split         TSS (mg/L)         VSS (mg/L)           7         15         95          1          1         1         24         1           7         17         95          1          1         10         2           7         17         95          1          1         1          6         6           7         17         95          1          1         1          1          1          1          1          1          1          1          9          9          9          9          9          9          9          9          9          9          9          9          9          9          9          9          9        <	Solids	and Chi	oroph	yll Co	ncentr	ations	for Tr	ibuta	ry Sa	mpling Sta	tions	
7         5         95          1          1         1         24         1           7         17         95          1          1         1         10         2           7         17         95          1          1         1         50         6           7         17         95          1          1         1         5         0           7         17         95          1          1         5         0           7         17         95          1          1         1          4         3           7         17         95          1          1         1         7         4           7         17         95          1          1         1         4         3           7         17         95          1          1         1         4         3           7         17         95          1 <th>Station</th> <th>Month</th> <th></th> <th>Year</th> <th>Time</th> <th>Type</th> <th>Event</th> <th>Rep</th> <th>Split</th> <th>TSS (mg/L)</th> <th>VSS (mg/L)</th> <th>CHLA (ug/L)</th>	Station	Month		Year	Time	Type	Event	Rep	Split	TSS (mg/L)	VSS (mg/L)	CHLA (ug/L)
7         17         96          1          1         1         10         2           7         5         95          1          1         1         503         50           7         17         95          1          1         1         56         6           7         17         95          1          1         1         5         1           7         17         95          1          1         1         90         5           7         17         95          1          1         1         7         4           7         17         95          1          1         1         7         4           7         17         95          1          1         1         4         3           7         17         95          1          1         1          1          1           7         1         95        <	1-1	7	5	98		-		-	-	24	-	1.34
7         6         96          1          1         1         503         50           7         17         96          1          1         1         36         6           7         17         96          1          1         1         5         0           7         17         96          1          1         1         90         5           7         17         96          1          1         7         4           7         17         96          1          1         1         7         4           7         17         96          1          1         1         1         7         4           7         17         96          1          1         1         1         1         1           7         17         96          1          1         1         1         1           7         17         96          1 <td>T-1</td> <td>7</td> <td>17</td> <td>92</td> <td>٠</td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td>10</td> <td>2</td> <td>0.67</td>	T-1	7	17	92	٠	-		-	-	10	2	0.67
7         17         96          1          1         36         6           7         5         95          1          1         1         5         0           7         17         96          1          1         1         90         5           7         17         96          1          1         7         4           7         17         96          1          1         7         4           7         17         96          1          1         1         7         4           7         17         96          1          1         1         1         2         2           7         17         96          1          1         1         1         1         1           7         17         96          1          1         1         1         1           7         17         96          1          1	T-2	7	2	92		-		-	-	503	50	13.4
7         5         95          1          1         1         5         0           7         17         95          1          1         1         5         1           7         15         95          1          1         7         0           7         17         95          1          1         7         0           7         17         95          1          1         4         3           7         17         95          1          1         4         3           7         17         95          1          1         4         3           7         17         95          1          1         1         39         8           7         17         95          1          1         1         1         1         1           8         6         95         1200         2         1         1         1         1         1	T-2	7	17	92	٠	-		-	-	36	9	8.68
7         17         95          1          1         1         5         1           7         15         95          1          1         1         90         5           7         17         95          1          1         7         4           7         17         95          1          1         4         3           7         17         95          1          1         4         3           7         17         95          1          1         1         2         2           7         17         95          1          1         1         2         2           7         17         95          1          1         6         0           7         17         95          1          1         1         39         8           8         6         95         1200         2         1         1         1         1         1 <td>T-3</td> <td>7</td> <td>2</td> <td>92</td> <td></td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td>2</td> <td>0</td> <td>4.4</td>	T-3	7	2	92		-		-	-	2	0	4.4
7         5         96          1          1         1         90         6           7         17         96          1          1         7         4           7         17         95          1          1         4         3           7         17         95          1          1         4         3           7          17         95          1          1         4         3           7         17         95          1          1         1         2         2           7         17         95          1          1          9 </td <td>T-3</td> <td>7</td> <td>17</td> <td>92</td> <td></td> <td>1</td> <td></td> <td>-</td> <td>-</td> <td>2</td> <td>1</td> <td>1.5</td>	T-3	7	17	92		1		-	-	2	1	1.5
7         17         95          1          1         1         7         0           7         15         95          1          1         1         4         3           7         17         95          1          1         4         3           7         17         95          1          1         1         2         2           7         17         95          1          1         1         2         2           7         17         95          1          1         1         39         8           7         17         95          1          1         7         16           7         17         95          1          1         7         1           8         6         95         1200         2         2         1         1         22            8         6         95         1300         2         1         1         1         1 </td <td>T-4</td> <td>7</td> <td>5</td> <td>98</td> <td></td> <td>1</td> <td></td> <td>-</td> <td>-</td> <td>06</td> <td>5</td> <td>1.8</td>	T-4	7	5	98		1		-	-	06	5	1.8
7         5         95          1          1         1         4         3           7         17         95          1          1         1         4         3           7         17         95          1          1         1         2         2           7         17         95          1          1         6         0           7         17         95          1          1         39         8           7         17         95          1          1         73         16           7         17         95          1          1         73         16           7         17         95          1          1         7         1           8         6         95         1230         2         1         1         22            8         6         95         1300         2         2         1         1         1         1	T-4	7	17	96		-		-	-	7	0	0.83
7         17         95          1         1         1         4         3           7         15         95          1          1         1         12         2           7         17         95          1          1         6         0           7         17         95          1          1         6         0           7         17         95          1          1         7         16           7         17         95          1          1         1         7         16           8         6         95         1200         2         2         1         1         1         1         2           8         6         95         1300         2         2         1         1         1         1         1         1	T-5	7	2	92		-		-	-	7	4	10.4
7         5         95          1          1         1         1         12         2           7         17         95          1          1         1         2         2           7         17         95          1          1         6         0           7         17         95          1          1         73         16           7         17         95          1          1         73         16           7         17         95          1          1         73         16           8         6         95         1200         2         2         1         1         27         7           8         6         95         1300         2         2         1         1         1         22            8         6         95         1300         2         2         1         1         1         1	T-5	7	17	95		1		-	-	4	3	3.67
7         17         95          1          1         1         2         2           7         17         95          1          2         1         6         0           7         17         95          1          1         73         16           7         17         95          1          1         73         16           7         17         95          1          1         1         27         12           8         6         95         1200         2         2         1         1         12         7           8         6         95         1300         2         2         1         1         22            8         6         95         1300         2         2         1         1         1         1	T-6	7	5	92		1	٠	1	1	12	2	4.4
7         17         95          1          2         1         6         0           7         5         95          1          1         1         39         8           7         17         95          1          1         7         16           7         17         96          1          1         1         27         12           8         6         95         1200         2         2         1         1         29            8         6         95         1300         2         2         1         1         22            8         6         95         1300         2         2         1         1         113	T-6	7	17	95		1		1	-	2	2	0.95
7         5         95          1          1         1         39         8           7         17         95          1          1         1         73         16           7         15         95          1          1         1         27         12           8         6         95         1230         2         2         1         1         29            8         6         95         1300         2         2         1         1         22            8         6         95         1300         2         2         1         1         13	T-6	7	17	92		1		2	-	9	0	0.5
7         17         96          1          1         1         73         16           7         5         95          1          1         1         27         12           8         6         95         1200         2         2         1         1         12         7           8         6         95         1300         2         2         1         1         22            8         6         95         1300         2         2         1         1         13	T-7	7	5	92		1		-	-	39	80	8
7         5         95         .         1         .         1         1         27         12           8         6         95         1200         2         2         1         1         1         7           8         6         95         1230         2         2         1         1         29         .           8         6         95         1300         2         2         1         1         22         .	T-7	7	11	92		-		-	-	73	16	46
7         17         95         .         1         .         1         1         1         12         7           8         6         95         1200         2         2         1         1         29         .           8         6         95         1230         2         2         1         1         22         .           8         6         95         1300         2         2         1         1         113         .	T-8	7	2	92		-		1	-	27	12	126
8         6         95         1200         2         2         1         1         29         .           8         6         95         1230         2         2         1         1         22         .           8         6         95         1300         2         2         1         1         113         .	T-8	7	11	92		1	·	-	-	12	7	37.9
8         6         95         1230         2         2         1         1         22         .           8         6         95         1300         2         2         1         1         113         .	T-3	80	9	92	1200	2	2	-	-	29	•	
8 6 95 1300 2 2 1 1 113	T-3	œ	9	92	1230	2	2	+	-	22		
Sheet 1 of 4	T-3	80	9	95	1300	2	2	-	-	113		
												Sheet 1 of 4

				_		_	_					_	_	_	_		Т	T	_	_			$\neg$
CHLA (ug/L)	٠	•	•		•		•						•	٠	٠								Sheet 2 of 4
VSS (mg/L)	٠	•	•	•			٠	٠	٠	٠		٠					•	•	٠	٠	,		
TSS (mg/L)	120	181	145	117	82	44	44	63	53	13	59	29	57	09	64	74	43	55	47	21	340	200	
Split	1	-	2	1	1	-	-	1	1	1	1	1	1	1	1	2	-	-	1	1	1	1	
Rep	1	1	1	1	1	-	-	1	1	٦	-	-	1	1	1	1	1	1	1	1	1	1	
Event	2	2	2	2	2	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4	1	-	
Type	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Time	1330	1400	1400	1500	1600	1700	1800	1900	2000	1600	800	1400	2000	2300	800	800	1200	1600	2000	800	1500	1530	
Year	92	92	92	92	92	92	92	95	95	95	95	95	95	95	95	95	98	92	92	92	98	95	
Day	9	9	9	9	9	9	9	9	9	17	18	18	18	18	19	19	19	19	19	20	14	14	
Month	æ	80	œ	8	œ	80	80	8	8	8	8	8	8	8	80	80	8	8	8	8	7	7	
Station	1-3	T-3	T-3	T-3	T-3	T-3	T-3	1-3	T-3	1-3	T-3	1-3	T-4	4-7									

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CHLA (ug/L)													•			•		•	•			•	Sheet 3 of 4
VSS (mg/L)				•					٠		•	•	•	•		•							
TSS (mg/L)	1460	870		970	620	700	710	56	72	78	79	61	98	66	95	107	87	86	73	86	129	114	
Split	1	1		-	-	-	2	-	-	-	-	-	-	-	2	-	-	-	-	1	1	-	
Rep	-	-		-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	1	1	-	
Event	1	-		-	-	-	-	က	က	е	က	က	က	3	3	3	က	3	3	3	3	3	
Type	2	2		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Time	1600	1630		1700	1730	1800	1800	900	1500	2100	909	1200	1700	2200	2200	0	009	1000	1400	1800	2200	0	
Year	96	98		95	92	92	92	98	92	92	92	92	95	92	92	95	92	95	95	95	92	92	
Day	14	14		14	14	14	14	17	17	17	18	18	18	18	18	19	19	19	19	19	19	20	
Month	7	7		7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	80	8	
Station	T-4	T-4		T-4	T-4	T-4	T-4	T-4	T-4	T-4	T-4	T-4	T-4	T-4	T-4	T-4	T-4	T-4	T-4	T-4	T-4	T-4	

3 3 3 3 3 3 1 1 1 5 1 1 1 1 1 1 1 1 1 1	Day Year Time	Type Event Re	Rep Split	TSS	VSS (mg/L)	CHLA (ug/L)
1     2     28       1     1     31       1     1     31       1     1     78       1     1     502       1     2     597       1     1     413       1     1     413       1     1     674       1     1     665       1     1     374       1     1     228       1     1     228       1     1     221       1     1     76	20 95 600 2	3	-	38		•
1     1     31        1     1     78        1     1     502        1     2     597        1     1     413        1     1     582        1     1     674        1     1     565        1     1     300        1     1     228        1     1     221        1     1     76	20 95 600 2	3 1	2	28	-	
1     1     78        1     1     502        1     2     597        1     1     413        1     1     582        1     1     674        1     1     565        1     1     374        1     1     300        1     1     228        1     1     221        1     1     76	20 95 1000 2	3 1	1	31	٠	-
5         1         1         502            5         1         2         597            6         1         1         413            7         1         1         582            8         1         1         674            9         1         1         565            9         1         1         374            9         1         1         300            9         1         1         228            9         1         1         228            1         1         221            1         1         221            1         1         76	1 95 1400 2		1	78	•	
5         1         2         597         .           5         1         1         413         .           5         1         1         582         .           5         1         1         674         .           5         1         1         565         .           6         1         1         374         .           5         1         1         300         .           5         1         1         228         .           5         1         1         228         .           5         1         1         221         .           5         1         1         221         .           5         1         1         76         .	1 95 1430		1	502	•	•
5         1         1         413            5         1         1         582            5         1         1         674            5         1         1         565            6         1         1         374            5         1         1         300            5         1         1         228            5         1         1         223            5         1         1         221            5         1         1         221            6         1         1         76	1 95 1430		1 2	597	•	•
5         1         1         582         .           5         1         1         674         .           5         1         1         565         .           6         1         1         374         .           5         1         1         300         .           5         1         1         228         .           5         1         1         228         .           5         1         1         221         .           5         1         1         221         .           6         1         1         76         .	1 95 1500		1	413	•	•
5       1       1       674          5       1       1       565          5       1       1       374          6       1       1       300          5       1       1       228          5       1       1       233          5       1       1       221          5       1       1       76	1 95 1530		1 1	582	•	•
5     1     1     565     .       5     1     1     374     .       6     1     1     300     .       5     1     1     228     .       6     1     1     233     .       6     1     1     221     .       7     1     1     76     .	1 95 1600		1 1	674		•
5     1     1     374     .       6     1     1     300     .       5     1     1     228     .       6     1     1     233     .       5     1     1     221     .       6     1     1     76     .	1 95 1630		1 1	565	•	٠
5     1     1     300     .       5     1     1     228     .       5     1     1     233     .       5     1     1     221     .       5     1     1     76     .	1 95 1700		1	374	٠	٠
5     1     1     228     .       5     1     1     233     .       6     1     1     221     .       5     1     1     76     .	1 95 1800		1	300	٠	٠
5     1     1     233     .       5     1     1     221     .       5     1     1     76     .	1 95 1900	_	1 1	228	٠	
5 1 1 221 . 5 1 1 76 .	1 95 2000		1 1	233	•	٠
5 1 1 76 .	1 95 2100		1	221	•	
Sheet 4 of 4	2 95 600		1	76	•	
						Sheet 4 of 4

C17

Table C5	CS										
Nitrog	en Col	ncen	tratic	ons for	Ope	A-n	ater Samp	Nitrogen Concentrations for Open-water Sampling Locations	suc		
Station	Station Month Day	Day	Year	Round	Rep	Rep Split	Depth (m)	NO3N (mg/L)	NO3N (mg/L) NH3N (mg/L) TKN (mg/L)	TKN (mg/L)	DTKN (mg/L)
A0-1	9	26	95	1	1	1	0.5	0.01	0	0	0
A0-1	9	26	95	1	1	1	21	0.01	0	0	0
A0-2	9	26	92	1	-	1	0.5	0.01	0	0	0
A0-2	9	26	95	1	1	1	16	0.01	0	0	0
LC-1	9	29	92	1	1	1	0.5	0.01	0	0.04	0.04
LC-1	6	29	95	1	-	2	0.5				•
. LC-1	9	29	92	1	1	1	8	0.01	0	0.08	0.01
MP-1	9	27	98	1	1	-	1.5	0.01	0.05	0.21	0.04
MP-2	9	27	92	1	1	1	0.5	0.04	0.64	0.7	0.3
MP-2	9	27	92	1	1	-	3.5	0.01	0.74	0.41	0.27
PL-1	9	28	92	1	-	1	0.5	0	0.01	0.17	0.11
PL-2	9	28	98	1	1	1	0.5	0	0.01	0.41	0.26
PN-1	9	27	92	1	1	1	1.5	0.01	0.22	0.18	0.11
SA-1	9	26	92	1	1	-	0.5	0	0	0.02	0
SA-1	9	26	95	1	1	1	12.5	0	0	0.07	0.01
SC-1	9	28	92	-	1	1	0.5	0	0.1	0.3	0.24
SC-1	9	28	92	1	-	1	8	0	10.6	3.8	3.6
SJ-1	9	28	92	-	-	-	1	0.01	0.04	0.53	0.38
SJ-2	9	28	95	-	-	-	0.5	0.01	0.39	0.55	0.39
SJ-3	9	28	92	-	-	-	1	0.01	0.1	0.32	0.25
											Sheet 1 of 10

					_		_			_	_			_		_	7	_		-		_	
DTKN (mg/L)	0.22	0.21	2.8	0	0	0.03	0.02	0	0.04	0.01	0.03	0		0.12	0.08	1.4	0.09	0.01	0	0	0.05	0	Sheet 2 of 10
TKN (mg/L)	0.34	0.42	3.3	0.03	90.0	0	0	0	90.0	90.0	0.1	0.03	0.09	0.08	0.11	1.5	0.41	0.01	0	0	0	0	
NH3N (mg/L)	0.05	0.02	9.1	0	0.02	0	0	0	0	0	0	0.02	0.01	Ó	0.01	6	0.02	0.18	0.07	0.02	0.07	0.11	
NO3N (mg/L)	0	0	0.04	0.01	0.02	0	0	0	0	0.01	0	0.02	0	0.01	0.01	0.02	0.01	0	0.01	0.01	0	0	
Depth (m)	1	0.5	9	0.5	14.5	0.5	0.5	12	0.5	0.5	11	1.5	0.5	0.5	0.5	13	0.5	0.5	21	0.5	21	0.5	
Rep Split	1	1	1	1	1	1	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1	1	
Rep	1	1	1	ı	1	1	1	1	1	-	-	-	1	1	+	1	1	1	1	1	1	1	
Round	1	1	1	1	ı	1	-	-	-	-	-	-	-	1	-	1	-	2	2	2	2	2	
Year	96	95	95	96	96	98	98	92	92	92	92	92	92	92	92	96	98	95	92	92	92	92	
Day	28	28	28	26	26	26	26	26	26	26	26	26	29	29	29	29	28	10	10	9	10	13	
Month	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	7	7	7	7	7	
Station Month	SJ-4	SJ-5	SJ-5	SJB-1	SJB-1	SJB-2	SJB-3	SJB-3	SJB-4	SJB-5	SJB-5	TL-1	TL-2	TL-3	TL-4	TL-4	TL-5	A0-1	A0-1	A0-2	A0-2	LC-1	

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DTKN (mg/L)	0	0.16	0.48	0.64	0.04	0.04	0.04	0.11	0.14	0	0.03	0.24	2.5	60.0	0	60'0	0.04	0.03	0.25	0.1	0.01	0.14	Sheet 3 of 10
TKN (mg/L)	0	0.29	0.48	0.67	0.14	0.24	0.18	0.2	0.14	0	0.02	0.83	3.1	0.75	0.79	0.16	0.32	0.21	0.38	0.49	80.0	0.12	
NH3N (mg/L)	0.13	60.0	0.53	1.49	0	0.01	0.02	0.17	0.18	0.14	0.17	0.02	5.8	0.05	0.37	0.23	0.15	0.13	0.12	0.13	0.04	0.08	
Depth (m) NO3N (mg/L) NH3N (mg/L) TKN (mg/L)	0	0	0.01	0	0	0	0	0.01	0	0.01	0	0.04	0	0	0	0.01	0	0	0.01	0	0	0	
	9	1.5	0.5	4	1	0.5	0.5	1	1	0.5	12	0.5	6	0.5	0.5	0.5	1	1	0.5	3	0.5	16	
Split	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Rep	1	1	1	1	1	1	2	1	2	1	1	1	1	1	1	1	1	2	1	1	1	1	
Station Month Day Year Round Rep Split	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Year	92	98	95	95	95	95	95	95	95	95	95	95	95	95	95	95	92	92	92	95	95	92	
Day	13	13	13	13	12	12	12	13	13	10	10	11	11	11	11	-	11	11	11	-	10	10	
Month	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
Station	LC-1	MP-1	MP-2	MP-2	PL-1	PL-2	PL-2	PN-1	PN-1	SA-1	SA-1	SC-1	SC-1	SJ-1	SJ-2	SJ-3	SJ-4	SJ-4	SJ-5	SJ-5	SJB-1	SJB-1	

							-		_		_					- T	_			_			
DTKN (mg/L)	0.02	0.01		0.01	٠	0.02		0	0.01	0.13	0.02	0.02	90.0	•	0.08	0	0	0	0	0	0	0	Sheet 4 of 10
TKN (mg/L)	60.0	0.01	•	0.01		0.08		0	0.08	0.18	0.02	0.12	90.0	0.13	60.0	0	0.03	0	0	0	0	0	
NH3N (mg/L)	0.11	0.04		•		0.12	•	0.13	0.04	0.04	0.04	0.01	0.02	0.01	0.01	0	0	0	0	0	0.1	0	
NO3N (mg/L) NH3N (mg/L) TKN (mg/L)	0	0		0		0.01	•	0	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	
Depth (m)	0.5	0.5	0.5	0.5	0.5	11	11	1.5	0.5	11	1.5	0.5	0.5	1.5	1	0.5	18	0.5	18	0.5	0.5	7	
Split	-	-	2	1	1	1	2	1	-	-	F	-	-	-	-	-	1	1	-	-	1	-	
Rep	-	-	1	2	3	1	1	-	-	-	-	-	-	-	-	1	1	1	1	-	2	-	
Year Round Rep Split	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	ε	3	3	က	ဗ	က	
Year	92	95	95	92	95	92	95	92	95	95	95	95	95	95	95	92	92	95	95	95	95	95	
Day	10	10	10	10	10	10	10	10	13	13	10	12	12	12	12	24	24	24	24	31	31	31	
Month	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
Station Month Day	SJB-2	SJB-3	SJB-3	SJB-3	SJB-3	SJB-3	SJB-3	SJB-4	SJB-5	SJB-5	11-1	TL-2	TL-3	TL-4	TL-5	A0-1	A0-1	A0-2	A0-2	LC-1	-5-1	10-1	

	_	_	_	_	_	ī	1	T	_	_	_	_	_	_		_	_	_	_	_	_	_	
DTKN (mg/L)	0	0	0	0	0.1	0.23	0.14	0.17	0.3	0	0.05	0.31	1.2	0.27	0.31	0.31	0.35	0.44	0.35	3.1	0	0.02	Sheet 5 of 10
TKN (mg/L)	0	99.0	0.3	0.3	6.0	0.49	0.4	9.0	0.48	0.04	0.13	0.41	2	0.71	0.61	0.4	0.39	0.37	0.5	2.8	0	0.03	
NH3N (mg/L)	0	0.42	0	0	0.54	0.56	0.01	0.02	0.39	0	0.04	0.02	4.5	0.03	0.13	0.17	0.18	0.28	0.16	7.4	0	0.01	
Depth (m) NO3N (mg/L) NH3N (mg/L) TKN (mg/L)	0	0.05	0	0.02	0.04	0	0.01	0	0.32	0	0.01	0	0	0	0.01	0.01	0.01	0	0.01	0.04	0.01	0.01	
Depth (m)	7	0.5	3	3	0.5	3	0.5	0.5	1	0.5	11	0.5	8	1	0.5	1	1	1	0.5	5	0.5	16	
Split	2	1	1	2	1	1	F	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Rep	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	
Round	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Year	92	92	92	98	92	92	98	92	92	98	98	92	95	95	95	95	98	92	92	92	92	92	
Day	31	27	27	27	27	27	25	25	27	24	24	26	26	26	26	26	26	26	26	26	24	24	
Month	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
Station Month Day Year Round Rep Split	LC-1	MP-1	MP-1	MP-1	MP-2	MP-2	PL-1	PL-2	PN-1	SA-1	SA-1	SC-1	SC-1	SJ-1	SJ-2	SJ-3	SJ-3	SJ-4	SJ-5	SJ-5	SJB-1	SJB-1	

Day	Year	Round	Rep Split	Split	Depth (m)	NO3N (mg/L)	NHSN (mg/L) INN (mg/L)	IKN (mg/L)	DINN (IIIg/L)
24	95	3	-	-	-	0	0	60.0	0.02
24	95	3	-	-	0.5	0	0	0.03	0
24	95	6	-	-	11	0	0.03	0.03	0.02
24	95	3	-	-	1.5	0	0	0.03	0
24	95	3	2	-	1.5	0	0.04	0.07	0
24	95	3	-	-	0.5	0	0	0.1	0.1
24	95	3	-	-	11	0	0.03	90.0	0
24	95	3	-	-	1.5	0.01	0.01	0.18	0.02
25	95	3	-	-	0.5	0	0.01	0.21	90.0
25	╂	3	-	-	0.5	0	0.11	0.26	0.05
25	95	3	-	1	-	0	60.0	90.0	0.03
25	95	3	-	-	0.5	0	0	0.3	90.0
_	95	4	-	-	0.5	0	0.04	0.15	0.02
	95	4	-	1	18	0	0.03	0	0
_	95	4	1	1	0.5	0	0.02	0	0
~	95	4	1	1	15	0	0.04	0	0
2	95	4	1	1	0.5	0	0	0.01	0
유	95	4	2	1	0.5	0	0	0	0
2	95	4	-	-	ß	0	0.07	0.02	0
2	95	4	-	-	0.5	0.03	0.74	0.41	0.31
2	95	4	-	-	3	0	0.12	0.16	
12	95	4	-	-	0.5	0.02	0.58	0.52	0.78
	┨								Sheet 6 of 10

Ç																							10
DTKN (mg/L)	0.15	0.71	0.23	0.22	0.1	0.12		•	0.27	9		0.21	0.45	0.4	0.42	0.34	0.31	0.24	0	0	0.04	0.01	Chant 7 at 10
TKN (mg/L)	0.77	0.65	0.7	0.64	0.16	0.2	0.03	0.02	0.33	8.2	•	0.21	92.0	0.46	0.4	0.42	0.41	0.3	0	0	0.07	0	
NH3N (mg/L) TKN (mg/L)	1.5	0.03	0.04	90.0	0.32	0.27	0	0.02	0.07	11	٠	0.03	0.28	0.44	0.44	0.23	0.22	0.11	0.05	0.05	0.01	0	
NO3N (mg/L)	0	0	0	0	0.01	0	0	0	0.01	0		0.01	0.02	0.01	0.01	0.01	0.01	0	0	0	0	0	
Depth (m)	3	0.5	0.5	0.5	1	1	0.5	12	0.5	8	80	2	0.5	1	1	1	1	1	0.5	15	1	0.5	
Rep Split	1	1	2	1	1	2	-	1	-	1	2	-	1	1	2	1	1	1	1	1	1	1	١
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	
Round	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Day Year	92	92	96	96	98	96	66	96	96	96	96	95	96	36	36	95	36	92	98	95	98	98	
Day	10	8	8	8	10	10	7	7	6	6	6	6	6	6	6	6	6	6	4	7	7	4	
Month	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
Station Month	MP-2	PL-1	PL-1	PL-2	PN-1	PN-1	SA-1	SA-1	SC-1	SC-1	SC-1	SJ-1	SJ-2	SJ-3	SJ-3	SJ-4	SJ-4	SJ-5	SJB-1	SJB-1	SJB-2	SJB-3	

			_		_		_				_					_		_				-	
DTKN (mg/L)	0.02	0.05	0.04	0.12	0.27	0.04	0.1	0.1	0.08	0.48	9.0	0.68	0.31	0.04	0.03	0.02	0.03	90.0	0.02	0.34	0.98	0.97	Sheet 8 of 10
TKN (mg/L)	0.04	0.05	0.04	60.0	0.32	90.0	90'0	0.11	0.12	0.13	3	3.1	0.81	90.0	0.03	0.08	0.08	90.0	0.05	0.37	1.1	1	
NH3N (mg/L) TKN (mg/L)	0.01	0.02	0.04	0.16	0.05	0.04	90.0	0.03	0.04	90.0	5.9	5.4	0.26	0.08	0.29	0.19	0.04	0.41	9.0	0.61	2.1	2.2	
NO3N (mg/L)	0	0	0	0.01	0	0.01	0	0	0	0	90.0	60.0	0	0.01	. 0	0	0	0	0.01	0.01	0	0	
Depth (m)	11	1	1	0.5	10	0.5	3.6	0.5	0.5	0.5	10	10	0.5	0.5	17	0.5	16	0.5	8	1.5	0.5	0.5	
Rep Split	1	1	2	1	1	1	1	1	-	-	1	1	1	-	1	1	1	1	1	1	1	1	
Rep	1	1	1	1	1	1	1	1	1	1	ı	7	1	-	1	1	1	1	1	1	1	2	
Round	4	4	4	4	4	4	4	4	4	4	4	4	4	വ	2	9	9	9	9	9	9	9	
Year	98	95	95	95	92	95	98	95	95	95	92	95	95	95	92	92	92	95	92	92	96	92	
Day	7	7	7	7	7	7	7	8	8	8	8	8	8	22	22	22	22	28	28	23	23	23	
Month	8	8	8	8	8	8	8	ھ	.8	8	8	8	8	80	80	8	8	8	8	8	8	8	
Station Month	SJB-3	SJB-4	SJB-4	SJB-5	SJB-5	TL-1	TL-1	TL-2	TL-3	TL-4	TL-4	TL-4	TL-5	A0-1	A0-1	A0-2	A0-2	LC-1	LC-1	MP-1	MP-2	MP-2	

DTKN (mg/L)	1.7	0.16	0.15	0.15	0.21	0.21	0.04	0.02	0.25	4.8	0.28	0.23	0.3	0.34	0.36	0.32	0.48	0.02	0.01	0.01	0.02	0.03	Sheet 9 of 10
TKN (mg/L)	1.6	0.39	0.52	62'0	6.0	0.29	90.0	90.0	0.49	9.6	0.71	62.0	0.36	0.64	0.65	0.59	0.78	0.05	0.03	0.1	0.11	0.11	
NH3N (mg/L)	3.6	0.31	0.2	0.13	0.44	0.5	0.04	0.05	0.18	11.5	0.08	0.05	0.22	0.28	0.3	0.24	0.55	0.04	0.4	0.23	0.08	0.8	-
Rep Split Depth (m) NO3N (mg/L) NH3N (mg/L) TKN (mg/L)	0.07	0.02	0.02	0.01	. 0	0	0.01	0	0.01	0.03	0.01	0	0	0	0	0	0	0	0	0	0	0	
Depth (m)	3	0.5	0.7	0.5	1	1	0.5	11	0.5	8	0.5	0.5	0.5	1	1	1	1	0.5	15	1	0.5	12	
Split	1	1	1	1	1	2	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	
Rep	1	1	2	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	
Year Round	5	5	5	5	5	5	5	2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
Year	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	
Day	23	24	22	24	23	23	22	22	21	21	21	21	21	21	21	21	21	22	22	22	22	22	
Station Month Day	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
Station	MP-2	PL-1	PL-1	PL-2	PN-1	PN-1	SA-1	SA-1	SC-1	SC-1	SJ-1	SJ-1	SJ-2	SJ-3	e-rs	SJ-4	SJ-5	SJB-1	SJB-1	SJB-2	SJB-3	SJB-3	

Station	Month	Day	Year	Round	Rep	Rep Split	Depth (m)	NO3N (mg/L)	NH3N (mg/L) TKN (mg/L)		DTKN (mg/L)
_	8	22	98	9	1	1	1.5	0	0.11	0.42	0.04
$\vdash$	8	22	92	9	1	2	1.5	0	0.11	6.0	0.05
-	8	22	92	9	-	-	0.5	0	0.45	90.0	0.02
_	8	22	98	9	1	1	10	0	0.2	0.04	90.0
-	8	22	98	2	1	1	0.5	0	0.37	0.11	60.0
$\vdash$	8	24	92	2	-	-	3	0.01	0.28	0.02	0.01
Н	8	24	98	2	1	1	0.5	0.01	90.0	0.13	60.0
$\vdash$	8	24	98	5	-	1	0.5	0.01	0.04	0.12	0.14
TL-3	8	22	98	2	1	2	0.5	0.01	90.0	0.07	0.14
TL-4	8	24	92	9	-	-	0.5	0.01	0.35	0.07	0
_	8	24	98	2	-	1	12	0.01	7	2.2	2.2
TL-5	8	24	98	2	-	-	1	0.01	0.16	0.12	0.08
							T.			-,	Sheet 10 of 10

Table C6	99										
Phosph	orus Co	ncen	itration	ns for C	-uad(	water	Samp	Phosphorus Concentrations for Open-water Sampling Locations	ions		
Station	Month	Day	Year	Round	Rep	Split	Depth	TP (mg/L)	TIP (mg/L)	TDP (mg/L)	DIP (mg/L)
A0-1	9	26	98	1	1	1	0.5	0	0.001	0.002	0
A0-1	9	26	92	1	1	-	21	0	0.001	0.002	0
A0-2	9	26	98	1	1	1	0.5	0.001	0.002	0.002	0
A0-2	9	26	92	1	1	1	16	0.009	0.003	0.005	0.001
LC-1	9	29	98	1	1	1	0.5	0.015	0.008	0.007	0.003
LC-1	9	29	98	1	-	2	0.5				
LC-1	9	29	98	1	-	-	8	0.036	0.026	0.017	0.025
MP-1	9	27	98	1	1	-	1.5	960.0	0.062	0.028	0.041
MP-2	9	27	98	1	-	-	0.5	0.358	0.345	0.167	
MP-2	9	27	95	1	-	-	3.5	0.156	0.088	0.107	0.089
PL-1	9	28	98	1	1	1	0.5	0.131	0.051	0.023	0.037
PL-2	9	28	95	1	-	1	0.5	0.172	0.091	0.08	0.038
PN-1	9	27	95	1	1	-	1.5	0.11	0.073	0.046	0.066
SA-1	9	26	92	1	-	1	0.5	0.04	0.016	0.03	0.015
SA-1	9	26	92	1	-	-	12.5	0.069	0.018	0.078	0.036
SC-1	9	28	92	1	1	1	0.5	0.138	960.0	0.1	0.083
SC-1	9	28	92	1	1	1	8	1.44	1.25	1.54	1.48
SJ-1	9	28	92	-	1	1	1	0.186	0.131	0.084	0.086
SJ-2	9	28	92	-	-	-	0.5	0.234	0.23	0.158	0.226
SJ-3	9	28	95	-	-	-	-	0.16	0.124	0.117	0.166
											Sheet 1 of 10

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DIP (mg/L)	600'0	0.073	0.166	0.217	0.006	0.004	0.001	0.059	0.066	0.001	0.008	0.067	1.06	0.074	0.037	0.108	0.108	0.108	0.101	0.083	0.003	0.003	
TDP (mg/L)	0.007	0.078	0.185	0.217	0.02	0.019	0.011	90.0	0.068	0.027	0.024	0.092	1.14	0.117	0.064	0.14	0.135	0.138	0.131	0.103	0.027	0.028	
TIP (mg/L)	0.016	0.11	0.195	0.246	0.074	0.057	0.053	0.084	0.085	0.012	0.016	0.111	1.18	0.13	0.259	0.143	0.124	0.126	0.113	0.136	0.008	0.003	
TP (mg/L)	0.02	0.165	0.255	0.295	0.133	0.119	0.13	0.125	0.102	0.04	0.048	0.174	1.32	0.219	0.318	0.201	0.17	0.176	0.198	0.22	0.046	0.027	
Depth	9	1.5	0.5	4	1	0.5	0.5	1	1	0.5	12	0.5	6	0.5	0.5	0.5	1	1	9.0	3	0.5	16	
Split	1	1	-	1	1	1	1	1	1	1	1	-	1	-	1	1	1	1	1	1	1	ı	
Rep	1	1	1	1	1	1	2	1	2	-	-	-	1	-	1	1	1	2	1	-	-	1	
Round	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Year	95	95	98	92	92	95	95	95	92	95	95	95	92	95	92	92	98	92	92	98	92	92	
Day	13	13	13	13	12	12	12	13	13	10	10	=	=	Ξ	Ξ	=	=	=	Ξ	=	10	10	
Month	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
Station	LC-1	MP-1	MP-2	MP-2	PL-1	PL-2	PL-2	PN-1	PN-1	SA-1	SA-1	SC-1	SC-1	SJ-1	SJ-2	SJ-3	SJ-4	SJ-4	SJ-5	SJ-5	SJB-1	SJB-1	

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DIP (mg/L)	0.007	0.08	0.012	0.013	0.125	0.088	0.001	0.002	0.123	0.007	0.012	0.015	0.005	0.007	0.022	0.081	0.073	0.116	0.07	0.84	0.003	0.005	Sheet 5 of 10
TDP (mg/L)	0.008	0.126	0.03	0.032	0.186	0.099	0.017	0.025	0.173	900'0	0.012	0.076	0.415	0.039	0.049	0.112	0.113	0.144	0.103	0.89	0.002	0.003	
TIP (mg/L)	0.015	908.0	0.146	0.152	0.577	0.267	0.059	0.072	0.458	0.007	0.012	0.111	0.64	0.12	0.094	60.0	0.092	0.129	0.116	0.805	0.008	0.002	
TP (mg/L)	0.032	0.266	0.177	0.181	0.378	0.165	0.166	0.162	0.458	0.021	0.022	0.152	0.772	0.188	0.184	0.129	0.13	0.165	0.172	0.941	0.025	0.008	
Split Depth	7	0.5	3	3	0.5	3	0.5	0.5	1	0.5	11	0.5	8	1	0.5	-	1	1	0.5	5	0.5	16	
Split	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	1	-	
Rep	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	2	1	1	1	-	-	
Round	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	က	3	3	3	က	3	
Year	95	92	95	95	95	92	92	92	92	95	95	92	92	92	95	95	92	95	92	92	92	95	
Day	31	27	27	27	27	27	25	25	27	24	24	26	26	26	26	26	26	26	26	26	24	24	
Month	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
Station	LC-1	MP-1	MP-1	MP-1	MP-2	MP-2	PL-1	PL-2	PN-1	SA-1	SA-1	SC-1	SC-1	SJ-1	SJ-2	SJ-3	SJ-3	SJ-4	SJ-5	SJ-5	SJB-1	SJB-1	

I DP (mg/L) DIP (mg/L)	0.013 0.009			- -																			
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0.004	0.004		0.011	0.008		9000	0.006	0.006	0.008	0.006 0.008 0.009 0.003	0.008 0.008 0.01 0.009 0.023	0.006 0.008 0.001 0.003 0.016 0.016	0.008 0.008 0.001 0.003 0.023 0.016 0.012	0.008 0.008 0.009 0.023 0.016 0.012 0.012	0.008 0.008 0.01 0.003 0.016 0.012 0.012 0.003	0.006 0.008 0.009 0.023 0.016 0.012 0.001 0.009	0.006 0.008 0.009 0.023 0.012 0.012 0.009 0.009 0.001	0.006 0.008 0.009 0.003 0.012 0.012 0.001 0.001 0.001 0.006	0.006 0.008 0.009 0.003 0.0023 0.016 0.012 0.012 0.001 0.009 0.006 0.006	0.006 0.008 0.003 0.003 0.012 0.012 0.012 0.001 0.009 0.001 0.006 0.008	0.006 0.008 0.003 0.023 0.012 0.012 0.001 0.001 0.006 0.008 0.008	0.006 0.008 0.001 0.003 0.003 0.012 0.016 0.012 0.001 0.006 0.006 0.006	0.006 0.008 0.009 0.003 0.016 0.012 0.011 0.009 0.006 0.006 0.006 0.006 0.006 0.007
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0.035 0.012 0.018	0.012	0.018	0.049		0.04		0.021	0.021	0.021	0.021 0.017 0.022 0.052	0.021 0.017 0.022 0.052 0.052	0.021 0.017 0.022 0.052 0.041	0.021 0.017 0.052 0.052 0.041 0.02	0.021 0.017 0.052 0.041 0.04 0.02 0.09	0.021 0.017 0.052 0.052 0.041 0.02 0.09	0.021 0.017 0.052 0.052 0.041 0.02 0.09 0.002	0.021 0.017 0.052 0.052 0.041 0.002 0.002 0.002 0.002	0.021 0.017 0.052 0.041 0.041 0.002 0.002 0.002 0.0001 0.0001	0.021 0.017 0.052 0.052 0.041 0.002 0.002 0.0001 0.0001 0.0001	0.021 0.017 0.052 0.052 0.041 0.09 0.09 0.001 0.001 0.003	0.021 0.017 0.052 0.041 0.09 0.002 0.001 0.001 0.003 0.003 0.003 0.003	0.021 0.017 0.052 0.052 0.041 0.002 0.002 0.001 0.001 0.002 0.003 0.003	0.021 0.017 0.052 0.052 0.041 0.002 0.002 0.001 0.001 0.002 0.003 0.002 0.004
0.063 0.028 0.018 0.057	0.028 0.018 0.057	0.018	0.057		0.062	0.044		0.027	0.027	0.027 0.054 0.074	0.027 0.054 0.074 0.097	0.027 0.054 0.074 0.097	0.027 0.054 0.074 0.097 0.06	0.027 0.054 0.074 0.097 0.06 0.168	0.027 0.054 0.074 0.097 0.06 0.168 0.001	0.027 0.054 0.074 0.097 0.06 0.168 0.001 0.002	0.027 0.054 0.074 0.097 0.06 0.001 0.002	0.054 0.054 0.074 0.097 0.06 0.168 0.001 0.001 0.001	0.027 0.054 0.074 0.097 0.06 0.168 0.001 0.001 0.001	0.027 0.054 0.074 0.097 0.06 0.001 0.001 0 0.014	0.054 0.054 0.074 0.097 0.06 0.001 0.001 0.001 0.014 0.019	0.027 0.054 0.074 0.097 0.06 0.168 0.001 0.001 0.001 0.014 0.019	0.027 0.054 0.074 0.097 0.097 0.001 0.001 0.001 0.014 0.019 0.019 0.206
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g/L)	ည္က	7	8	4	=	6;	8	90	22	7		33	23	-		88	92	2	4	25	8	40	Ī
DIP (mg/L)	0.135	0.017	0.018	0.014	0.031	0.029	0.008	900'0	0.005	2.17		0.003	0.063	0.091		0.038	0.036	0.012	0.004	0.005	800'0	0.004	
TDP (mg/L)	0.16	0.046	0.049	0.047	0.051	0.051	0.011	0.013	0.027	2.42		0.026	0.097	0.119	0.121	0.064	90.0	0.028	0.014	0.008	0.018	0.015	
TIP (mg/L)	0.14	0.102	0.105	0.063	0.106	0.098	0.006	0.013	0.04	2.19		0.101	0.162	0.109	0.106	0.064	0.061	0.095	0.007	0	0.04	0.01	
TP (mg/L)	0.252	0.223	0.219	0.175	0.151	0.149	0.017	0.022	0.078	2.5		0.15	0.21	0.134	0.132	0.097	0.1	0.103	0.021	0.003	0.054	0.016	
Depth	3	0.5	0.5	0.5	1	1	0.5	12	0.5	8	80	2	0.5	1	1	1	1	1	0.5	15	1	0.5	
Split	1	1	7	1	1	2	1	1	1	1	2	1	1	1	2	1	1	1	1	1	1	1	
Rep	1	1	1	Į.	1	1	1	ı	ı	ı	1	1	1	1	1	1	2	1	1	1	1	-	
Round	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Year	98	95	95	92	92	98	95	98	95	92	98	92	98	92	92	92	98	95	92	98	92	92	
Day	10	8	8	8	10	10	7	7	6	6	6	6	6	6	6	6	6	6	7	7	7	7	
Month	8	8	80	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
Station	MP-2	PL-1	PL-1	PL-2	PN-1	PN-1	SA-1	SA-1	SC-1	SC-1	SC-1	SJ-1	SJ-2	SJ-3	SJ-3	SJ-4	SJ-4	SJ-5	SJB-1	SJB-1	SJB-2	SJB-3	

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DIP (mg/L)	0.012	0.005	0.003	0.035	0.005	0.004	0.003	0.004	0.013	•			0.01	0.002	0.002	0.002	0.001	0	0	0.077	0.333	0.323	Sheet 8 of 10
TDP (mg/L)	0.014	0.012	0.019	0.039	0.019	0.012	0.012	0.02	0.021	0.052	0.888	1	0.03	0.008	0.01	600'0	0.008	0.019	0.019	0.107	0.367	0.352	
TIP (mg/L)	0.015	0.019	0.018	0.063	0.017	0.014	0.014	0.03	0.085	0.045	0.908	0.928	0.068	0.004	0.003	0.002	0.003	0	0.028	0.119	0.418	0.438	
TP (mg/L)	0.03	0.024	0.022	0.073	0.051	0.036	0.039	0.064	0.067	0.087	1.04	1.05	0.093	0.022	0.01	0.006	0.007	0.022	0.059	0.181	0.488	0.533	
Depth	11	1	1	0.5	10	0.5	3.6	0.5	9.0	0.5	10	10	9.0	9.0	17	9'0	16	9.0	8	1.5	0.5	0.5	
Split	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Rep	1	1	1	1	1	1	1	1	1	1	1	2	1	1	-	l	1	1	1	1	1	2	
Round	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	9	9	9	9	9	2	9	
Year	96	95	95	95	95	95	95	95	95	95	95	95	95	95	95	96	96	96	98	36	96	96	
Day	4	7	7	7	7	7	7	8	8	80	8	8	8	22	22	22	22	28	28	23	23	23	
Month	8	8	8	8	8	8	8	œ	8	8	8	æ	8	ھ	8	80	8	8	8	8	ω	80	
Station	SJB-3	SJB-4	SJB-4	SJB-5	SJB-5	TL-1	TL-1	TL-2	TL-3	TL-4	TL-4	TL-4	TL-5	A0-1	A0-1	A0-2	A0-2	LC-1	LC-1	MP-1	MP-2	MP-2	

	Month	Day	Year	Round	Rep	Split	Depth	TP (mg/L)	TIP (mg/L)	TDP (mg/L)	DIP (mg/L)
	8	23	92	5	1	1	3	0.532	0.455	0.546	0.538
_	8	24	92	5	1	1	9.0	0.194	0.115	0.024	0.008
-	8	22	96	52	2	-	0.7	0.192	0.126	0.017	900'0
-	8	24	92	വ	1	-	0.5	0.171	0.085	0.018	0.007
-	8	23	92	2	1	1	1	0.163	0.11	0.082	0.067
<del>                                     </del>	8	23	95	5	-	2	-	0.167	0.121	0.083	0.068
<del>                                     </del>	8	22	92	2	1	-	0.5	0.013	600.0	0.011	0.001
1	8	22	95	2	-	-	11	0.014	0.015	0.012	0.004
1	8	21	92	മ	-	-	0.5	0.112	0.045	0.028	900'0
Τ-	8	21	92	5	-	-	8	5.09	1.7	1.93	1.81
1	8	21	92	5	-	-	0.5	0.171	0.064	0.035	0.004
1	8	21	92	5	2	-	0.5	0.172	0.062	0.026	0.004
_	8	21	92	5	1	-	0.5	0.203	0.121	0.085	0.048
1	8	21	95	5	-	-	1	0.227	0.14	0.093	0.059
$\vdash$	8	21	92	5	1	2	1	0.24	0.147	0.091	0.058
$\overline{}$	8	21	92	9	1	1	1	0.186	0.103	0.074	0.043
I	8	21	92	. 5	1	1	1	0.179	0.108	0.098	0.057
SJB-1	80	22	92	9	1	1	0.5	600.0	0.005	600.0	0.002
SJB-1	8	22	92	5	-	-	15	0.019	0.01	0.011	0.004
SJB-2	8	22	92	9	1	1	1	0.048	0.032	0.019	0.008
SJB-3	8	22	92	9	1	1	0.5	0.027	0.02	0.015	0.005
SJB-3	8	22	92	2	1	-	12	0.023	0.016	0.014	0.002
1											Choot 0 of 10

Station	Month	Day	Year	Round	Rep	Split	Depth	TP (mg/L)	TIP (mg/L)	TDP (mg/L)	DIP (mg/L)
SJB-4	8	77	<u> </u>	9	1	1	1.5	0.114	90'0	0.053	0.022
SJB-4	8	22	92	5	1	2	1.5	0.116	0.062	0.055	0.025
SJB-5	8	22	96	2	1	1	0.5	0.039	0.023	0.016	900'0
SJB-5	8	22	96	2	1	1	10	0.029	0.019	0.021	0.011
TL-1	8	22	96	9	1	1	0.5	0.054	0.023	90'0	0.053
TL-1	8	24	98	9	1	1	3	0.024	0.011	0.01	0.002
TL-2	8	24	96	9	1	1	0.5	0.089	0.04	0.025	900'0
TL-3	8	24	98	9	1	-	0.5	0.098	0.052	0.041	0.023
TL-3	8	22	92	2	1	2	0.5	0.103	0.058	0.046	0.023
TL-4	8	24	92	2	1	1	0.5	0.097	0.059	0.017	0.002
TL-4	8	24	92	9	1	1	12	0.818	0.545	0.585	0.608
TL-5	8	24	98	2	1	1	1	0.077	0.048	0.024	900.0
										S	Sheet 10 of 10

		ear Round Rep Split Depth (m) TDC (mg/L) DIC (mg/L) DOC (mg/L) TC (mg/L) TIC (mg/L) TOC (mg/L)	3.459	3.001	2.638	3.383	1.967	2.089	2.38	2.292	6.804	3.822	6.67		3.087	3.562	6.796	6.883	6.301	7.582	7.757	7.293	
		1C (mg/L) DOC	21.754 3.	22.549 3.	23.643 2.	23.007 3.	23.017 1.	23.512 2.	22.888 2	18.789 2.	26.737 6.	28.378 3.	25.116 6	21.117 11	25.145 3.	23.057 3.	23.246 6.	12.28 6.	30.244 6.	13.63 7.	11.57 7.	13.08 7.	
	ocations.	TDC (mg/L) D	25.213	25.551	26.281	26.39	24.984	25.6	25.267	21.082	33.541	32.2	31.786	33.029	28.232	26.619	30.042	19.163	33.394	21.212	19.327	20.373	
	is for Open-water Sampling Locations	t Depth (m	0.5	21	0.5	16	0.5	0.5	80	1.5	0.5	3.5	0.5	0.5	1.5	0.5	12.5	0.5	8	1	0.5	1	
	ater (	Spli	-	-	-	-	1	2	-	-	-	1	1	1	1	1	1	1	1	1	1	1	
	w-ne	Rep	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	
	or Ope	Round	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
			92	92	92	95	98	92	92	95	95	92	95	95	95	98	98	95	95	95	95	95	-
	ıtrati	Day	26	56	26	97	58	58	59	27	27	22	28	28	27	56	26	28	28	28	28	28	
7	Concer	Month	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
Table C7	Carbon Concentration	Station Month Day Y	A0-1	A0-1	A0-2	A0-2	LC-1	LC-1	LC-1	MP-1	MP-2	MP-2	PL-1	PL-2	PN-1	SA-1	SA-1	SC-1	SC-1	SJ-1	SJ-2	SJ-3	

Station	Station   Month   Day   Ye	Day		Round	Rep	Split	Depth (m)	TDC (mg/L)	DIC (mg/L)	ar Round Rep Split Depth (m) TDC (mg/L) DIC (mg/L) DOC (mg/L) TC (mg/L) TIC (mg/L) TOC (mg/L)	TC (mg/L)	TIC (mg/L)	TOC (mg/L)
SJ-4	9	28	92	-	-	-	1	14.051	5.226	8.825	•	-	
SJ-5	9	28	92	-	-	-	0.5	17.702	8.502	9.2			•
SJ-5	9	28	95	-	-	٦	9	27.581	24.381	6.402			
SJB-1	9	26	92	-	-	-	0.5	23.12	20.142	2.978			•
SJB-1	9	26	95	-	-	1	14.5	25.213	22.639	2.574	·	-	•
SJB-2	9	26	92	-	-	1	0.5	27.273	23.514	3.759			
SJB-3	9	26	95	-	-	-	0.5	25.998	22.679	3.319			
SJB-3	9	26	95	-	-	-	12	26.641	23.275	3.365			-
SJB-4	9	26	95	-	-	-	0.5	29.671	24.439	5.232			
S.IB-5	9	26	95	-	-	-	0.5	25.845	22.022	3.823			
S. IR-5	9	26	95	-	-	-	11	28.548	22.987	5.561			
- I	9	26	95	-	-	-	1.5	27.36	23.156	4.204	-		
TI-2	9	29	95	-	-	-	0.5	24.711	21.018	3.694			
F	9	29	95	-	-	-	0.5	25.834	22.301	3.534		٠	
14-	9	29	95	-	-	-	0.5	32.898	24.748	8.15			
T-17	9	29	95	-	-	-	13	46.458	39.857	6.601	•		
1-5	٥	28	95	-	-	-	0.5	28.156	22.917	5.239			
A0-1	7	2	95	2	-	-	0.5	23.416	22.761	0.655	25.374	24.347	1.027
A0-1	7	2	95	2	-	-	21	21.852	20.72	1.132	25.064	24.059	1.005
A0-2		2	95	2	-	-	0.5	23.595	22.928	0.668	25.971	23.97	2.001
A0-2	7	2	95	2	-	-	21	24.3	22.983	1.317	25.04	24.292	0.748
-	7	13	95	2	-	-	0.5	22.785	20.175	2.611	28.071	24.363	3.708
3													Sheet 2 of 10

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Station Month Day Year Round Rep Split Depth (m) TDC (mg/L) DIC (mg/L) DOC (mg/L) TC (mg/L) TIC (mg/L) TOC (mg/L)	4.092	7.86	7.661	8.5	6.967	17.867	16.746	4.742	4.175	0.939	1.006	7.022	6.964	9.152	8.399	6.76	7.953	6.575	7.102	4.516	1.044	0.94	Sheet 3 of 10
TIC (mg/L)	24.688	25.435	28.433	31.312	25.034	22.393	22.134	25.457	25.078	24.758	24.536	16.239	52.788	16.461	18.635	16.25	14.054	15.551	16.039	22.04	24.414	24.148	
TC (mg/L)	28.78	33.295	36.094	39.812	32.002	40.26	38.88	30.198	29.253	25.697	25.542	23.261	59.752	25.613	27.034	23.01	22.007	22.126	23.141	26.557	25.458	25.088	
DOC (mg/L)	2.845	3.733	60.9	5.319	6.683	8.364	8.712	4.03	3.507	1.138	0.623	6.855	8.156	8.408	7.414	7.075	7.144	7.393	6.716	7.444	1.547	1.326	
DIC (mg/L)	21.744	22.945	26.073	26.322	23.627	19.222	19.969	24.439	22.848	23.46	22.495	17.337	50.88	15.008	17.626	15.684	15.03	15.008	15.363	17.858	23.804	21.852	
TDC (mg/L)	24.589	26.678	32.163	31.641	30.31	27.586	28.681	28.469	26.355	24.598	23.118	24.192	59.036	23.416	25.04	22.759	22.174	22.401	22.079	25.303	25.351	23.177	
Depth (m)	9	1.5	0.5	4	1	0.5	0.5	1	1	0.5	12	0.5	6	0.5	0.5	0.5	1	1	0.5	3	0.5	16	
Split	1	ļ	1	1	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	
Rep	1	1	1	1	1	1	2	1	2	1	1	1	1	1	1	1	-	2	1	1	1	+	
Round	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Year	95	98	98	98	92	92	92	92	95	95	95	95	95	95	92	95	95	95	95	95	95	95	
Day	13	13	13	13	12	12	12	13	13	10	10	11	11	11	11	=	=	11	11	11	10	10	
Month	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
Station	LC-1	MP-1	MP-2	MP-2	PL-1	PL-2	PL-2	PN-1	PN-1	SA-1	SA-1	SC-1	SC-1	SJ-1	SJ-2	SJ-3	SJ-4	SJ-4	SJ-5	SJ-5	SJB-1	SJB-1	

	7	_			_	-	-			_	7			1	= 1				Т		٦		0
TOC (mg/L	3.77	2.911	1.802	1.132	1.076	1.082	1.025	1.147	3.83	3,454	2.352	5.153	5.387	7.701	10.656	3.074	4.01	3.642	2.899	4.129	3.477	4.413	Sheet 4 of 10
TIC (mg/L)	24.614	25.401	23.715	24.78	24.214	24.447	24.004	24.359	24.266	23.746	24.181	23.292	23.281	25.034	26.171	24.041	22.981	23.524	23.718	23.306	23.7	24.164	
TC (mg/L)	28.383	28.312	25.518	25.912	25.291	25.53	25.028	25.506	28.096	27.201	26.533	28.444	28.668	32.735	36.827	27.115	26.99	27.167	26.617	27.435	27.177	28.576	
OOC (mg/L)	1.885	•	•	1.337		-0.592	1.081	0.456	3.187	3.331	2.217	3.955	4.73	4.999	5.447	3.285	3.173	3.001	5.051	3.513	3.136	3.162	
DIC (mg/L)	23.238	٠	•	23.249	•	22.695	23.338	24.536	22.285	23.173	23.671	22.264	22.794	23.93	24.179	22.253	23.34	23.128	22.52	22.724	23	23.03	
ear Round Rep Split Depth (m) TDC (mg/L) DIC (mg/L) DOC (mg/L) TC (mg/L) TIC (mg/L) TOC (mg/L)	25.124	•		24.586	•	22.103	24.419	24.992	25.472	26.504	25.888	26.218	27.524	28.93	29.626	25.538	26.513	26.129	27.572	26.237	26.136	26.192	
Depth (m)	0.5	0.5	0.5	0.5	0.5	11	11	1.5	0.5	11	1.5	0.5	0.5	1.5	1	9.0	18	0.5	18	0.5	9.0	7	
Split	1	1	2	1	1	1	2	1	-	-	-	-	-	-	-	-	1	1	1	1	1	-	
Rep	ı	1	1	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	
Round	7	7	7	2	2	2	2	2	2	2	2	2	2	2	2	8	3	က	က	3	8	က	
Year	98	92	98	95	95	95	95	92	95	95	95	95	92	95	95	92	92	92	95	92	95	92	
Day	10	10	10	10	10	10	10	10	13	13	10	12	12	12	12	24	24	24	24	31	31	31	
Month	7	4	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
Station Month Day	SJB-2	SJB-3	SJB-3	SJB-3	SJB-3	SJB-3	SJB-3	SJB-4	SJB-5	SJB-5	TL-1	TL-2	TL-3	TL-4	TL-5	A0-1	A0-1	A0-2	A0-2	LC-1	LC-1	LC-1	

/ Year Round Rep S		Round Rep Split Depth (m) TDC (mg/l	Rep Split Depth (m) TDC (mg/l	Split Depth (m) TDC (mg/l	Depth (m) TDC (mg/l	TDC (mg/l	$\Box$	DIC (mg/L)	DOC (mg/L)	TC (mg/L)	TIC (mg/L)	TOC (mg/L)
_	E	92	3	-	2	7			•	•		
	27	92	3	-	1	0.5	23.81	16.137	7.673	25.62	15.134	10.486
7	27	92	3	1	1	3	31.09	26.062	5.028	37.7	27.531	10.169
7	27	92	3	1	2	3				•	•	•
7	27	92	3	-	-	0.5	26.32	18.688	7.632	31.4	19.674	11.726
7	27	92	3	1	1	3	33.8	28.578	5.222	38.39	30.452	7.938
7	25	92	3	1	-	0.5	33.228	21.809	11.42	41.776	22.959	18.817
7	25	98	3	-	1	0.5	27.319	15.878	11.441	48.002	19.023	28.979
7	27	92	3	-	-	1	17.55	10.321	7.229	18.35	10.303	8.047
7	24	92	3	-	-	0.5	27.239	23.534	3.706	27.769	24.004	3.765
7	24	92	3	-	1	11	27.239	24.05	3.19	27.706	24.547	3.159
7	26	92	3	٦	1	0.5	24.53	15.132	9.398	25.599	15.231	10.367
7	26	95	3	-	1	8	38.98	30.761	8.219	35.697	23.864	25.195
7	26	92	3	-	1	1	24.337	13.845	10.492	27.014	14.625	12.389
7	26	92	3	-	-	0.5	24.309	14.816	9.492	27.091	15.206	11.885
7	26	95	9	-	-	1	23.567	14.011	9.556	24.058	14.368	69.6
7	26	92	3	2	-	1	23.798	13.87	9.928	24.029	14.268	9.761
7	26	92	3	-	-	1	24.087	14.451	9:636	24.78	15.082	669'6
7	26	92	3	-	+	0.5	23.163	14.368	8.795	24.655	14.733	9.922
7	26	92	3	-	-	5	46.239	36.679	9:26	31.596	23.1	16.993
7	24	92	3	-	-	0.5	26.046	22.852	3.194	26.316	23.257	3.059
7	24	92	в	-	-	16	26.015	22.944	3.071	26.897	23.626	3.271
												Sheet 5 of 10

r Round Rep	<u>(۲)</u>	mg/L) DOC (mg/L)	TC (mg/L)	TIC (mg/L)	TOC (mg/L)
5. 3 1 1 1	29.803 24.	24.455 5.347	29.657	24.446	5.211
5 3 1 1 0.5	25.89 22.	22.161 3.73	27.239	23.377	3.862
5 3 1 1 1 11	27.489 23.0	23.663 3.826	28.36	24.4	3.96
5 3 1 1 1 1.5	27.883	23.764 4.119	28.806	23.976	4.83
5 3 2 1 1.5	26.337	23.156 3.181	28.09	24.206	3.884
5 3 1 1 0	0.5 27.665 23.8	23.838 3.827	28.505	24.216	4.29
5 3 1 1	11 27.188 23.	23.69 3.497	27.769	24.455	3.314
5 3 1 1	1.5 27.312 21.	21.746 5.566	32.086	22.059	10.026
5 3 1 1	0.5 27.247 20.	20.748 6.499	30.437	21.656	8.781
5 3 1 1	0.5 27.759 2	21 6.759	30.519	21.728	8.791
5 3 1 1	1 29.374 24.	24.163 5.211	31.858	25.142	6.716
5 3 1 1	0.5 31.777 22	22.15 9.627	40.539	24.253	16.286
5 4 1 1	0.5 28.274 20.4	20.441 7.833	30.419	20.898	9.522
5 4 1 1	18 29.024 20.	20.382 8.642	31.492	20.915	10.578
5 4 1 1	0.5 28.112 19	19.19 8.922	30.039	20.999	9.04
5 4 1 1	15 28.193 19.	19.714 8.479	30.835	20.788	10.047
95 4 1 1	0.5 28.368 2	8.368	29.639	20.486	9.154
95 4 2 1	0.5 29.286 19.	19.883 9.403	28.591	20.042	8.55
95 4 1 1	5 26.79 18.	18.903 7.886	28.815	20.075	8.74
95 4 1 1	0.5 36.834 23.	23.332 13.502	40.143	24.63	15.514
95 4 1 1	3 48.28 32	32.03 16.25	32.077	21.482	10.595
35 4 1 1	0.5 38.777 24	24.169 14.608	40.438	24.529	15.909
	38.///				Sheet 6 of 10

Station Month Day Ye	Month	Day		Round	Rep	Split	Depth (m)	TDC (mg/L)	DIC (mg/L)	ar Round Rep Split Depth (m) TDC (mg/L) DIC (mg/L) DOC (mg/L) TC (mg/L) TIC (mg/L) TOC (mg/L)	TC (ma/L)	TIC (ma/L)	TOC (mg/l)
MP-2	8	10	95	4	-	-	8	29.969	21.139	8.831	52.284	32 976	19 308
PL-1	8	8	92	4	-	-	0.5	35.065	17.96	17.104	53.026	20.256	32.77
PL-1	8	8	98	4	-	2	0.5						1.75
PL-2	8	8	92	4	-	-	0.5	35.053	17.27	17.783	52.841	18.53	34,311
PN-1	8	10	92	4	1	1	-	31.924	21.641	10.283	36.493	22.16	14.333
PN-1	8	10	92	4	1	2	-						
SA-1	8	7	92	4	-	1	0.5	28.747	20.399	8.348	28.701	21.117	7.583
SA-1	8	7	92	4	-	-	12	27.985	20.154	7.832	28.643	21.126	7.517
SC-1	8	6	95	4	-	1	0.5	21.324	11.559	9.766	21.368	11.077	10.291
SC-1	8	6	95	4	-	-	8	92.701	68.76	23.941	98.557	71.601	26.956
SC-1	8	6	92	4	-	2	8	45.993	33.983	24.021	47.714	35.006	25.417
SJ-1	8	6	95	4	-	-	2	21.53	10.781	10.749	25.416	10.984	14.432
SJ-2	8	6	92	4	-	-	0.5	24.312	13.25	11.062	25.816	13.453	12.364
SJ-3	8	6	92	4	1	1	1	22.721	12.523	10.198	22.861	11.99	10.871
SJ-3	8	6	92	4	1	2	1						
SJ-4	8	6	95	4	-	-	1	21.746	11.897	9.85	22.753	12.024	10.729
SJ-4	8	6	95	4	2	1	1	21.53	11.897	9.633	22.753	11.948	10.806
SJ-5	8	6	95	4	-	-	-	20.512	11.322	9.191	22.905	11.618	11.287
SJB-1	œ	7	92	4	-	-	0.5	28.528	20.23	8.298	31.019	20.898	10.122
SJB-1	8	7	95	4	-	-	15	27.316	20.399	6.917	31.446	21.109	10.337
SJB-2	8	7	95	4	-	-	-	30.8	21.143	9.657	32.507	21.54	10.967
SJB-3	8	7	98	4	-	-	0.5	27.985	20.475	7.51	31.342	21.033	10.309
													Sheet 7 of 10

SJB-3         8         7         96         4         1         1         1         1         27,812         20,617         7,296         28.61         20,619         8.2           SJB-4         8         7         96         4         1         1         1         27,928         20,686         7.241         30,836         21,447         9.3           SJB-4         8         7         96         4         1         2         1         27,328         20,686         7.241         30,836         21,447         9.3           SJB-5         8         7         96         4         1         1         0.5         28,286         20,999         32,967         21,396         8.2           SJB-5         8         7         96         4         1         1         0.5         22,286         20,999         32,967         21,396         8.2           TL-1         8         9         4         1         1         0.5         22,395         11,367         21,396         11,00           TL-1         8         9         4         1         1         0.5         20,373         11,188         31,397         21,39	Station   Month   Day   Ye	Month	Day	Year	Round	Rep	Split	Depth (m)	TDC (mg/L)	DIC (mg/L)	ar Round Rep Split Depth (m) TDC (mg/L) DIC (mg/L) DOC (mg/L) TC (mg/L) TIC (mg/L) TOC (mg/L)	TC (mg/L)	TIC (mg/L)	TOC (mg/L)
8         7         95         4         1         1         1         27.928         20.686         7.241         30.835         21.447           8         7         95         4         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         3         2         20.39         7.897         31.238         21.363         2         2         1         1         0.5         29.22         21.363         20.394         21.394         29.646         21.396         2	SJB-3	8	7		4	-	-	11	27.812	20.517	7.295	28.851	20.619	8.232
8         7         96         4         1         2         1         2.0.2         21.363         7.867         31.238         21.963           8         7         96         4         1         1         0.6         28.433         20.999         7.494         29.646         21.366           8         7         96         4         1         1         0.6         28.433         20.999         7.494         29.646         21.396           8         7         96         4         1         1         0.6         28.436         19.376         8.909         32.967         21.396           8         7         96         4         1         1         0.6         28.286         19.376         8.996         31.677         21.016           8         9         4         1         1         0.6         29.112         19.34         9.98         31.677         21.016           8         9         4         1         1         0.5         29.112         19.34         8.996         31.20         20.187           8         9         4         1         1         0.5         29.112         19.34	SJB-4	8	7		4	-	-	1	27.928	20.686	7.241	30.835	21.447	9.388
8         7         96         4         1         1         0.6         29.22         21.363         7.857         31.238         21.963           8         7         96         4         1         1         0.6         28.493         20.999         7.494         29.646         21.396           8         7         96         4         1         1         0.6         28.493         20.994         7.494         29.646         21.396           8         7         96         4         1         1         0.6         28.286         19.376         8.909         32.957         20.737           8         9         4         1         1         0.6         29.112         19.376         9.918         31.617         20.107           8         9         4         1         1         0.6         29.112         19.378         39.978         31.212         20.244         9.978         31.817         21.016           8         9         4         1         1         0.6         32.435         20.245         31.81         21.016           8         9         4         1         1         0.6         32	SJB-4	8	7		4	1	2	1	•	•				
8         7         95         4         1         1         10         28.493         20.999         7.494         29.646         21.396           8         7         95         4         1         1         0.5         28.285         19.376         8.909         32.957         20.737           8         7         95         4         1         1         0.5         27.975         18.379         8.996         31.212         20.737           8         8         95         4         1         1         0.5         27.975         18.379         8.996         31.212         20.187           8         8         95         4         1         1         0.5         27.975         18.379         8.996         31.212         20.187           8         8         95         4         1         1         0.5         23.186         20.973         11.888         35.807         21.871           8         8         95         4         1         1         0.5         23.135         20.973         11.888         35.807         21.817           8         8         95         4         1         1	SJB-5	8	7	92	4	1	1	0.5	29.22	21.363	7.857	31.238	21.963	9.276
8         7         95         4         1         0.5         28.285         19.376         8.999         32.957         20.737           8         8         7         95         4         1         1         3.6         30.073         20.264         9.81         31.677         21.016           8         8         95         4         1         1         0.5         27.975         18.979         8.996         31.212         20.187           8         8         95         4         1         1         0.5         27.975         18.979         8.996         31.212         20.187           8         8         95         4         1         1         0.5         27.975         18.979         8.986         31.212         20.187           8         8         95         4         1         1         0.5         32.86         20.973         11.888         35.807         21.878           8         8         95         4         1         1         0.5         33.475         20.215         37.815         37.48           8         2         1         1         0         5         26.165	SJB-5	œ	7		4	-	٦	10	28.493	20.999	7.494	29.646	21.396	8.25
8         7         95         4         1         3.6         30.073         20.264         9.81         31.677         21.016           8         8         95         4         1         0.5         27.975         18.979         8.996         31.212         20.187           8         8         95         4         1         1         0.5         29.112         19.134         9.978         29.484         19.531           8         8         95         4         1         1         0.5         29.112         19.134         9.978         29.484         19.531           8         8         95         4         1         1         0.5         32.86         20.973         11.888         35.807         21.87           8         8         95         4         1         1         0.5         35.413         25.305         20.215         36.863         21.87           8         9         4         1         1         0.5         26.135         26.305         20.452         37.845         27.84         27.84         27.84           8         22         95         5         1         1         0.5	TL-1	80	7	95	4	-	-	0.5	28.285	19.376	8.909	32.957	20.737	12.22
8         8         95         4         1         0.5         27.975         18.979         8.996         31.212         20.187           8         9         4         1         0.5         29.112         19.134         9.978         29.484         19.531           8         9         4         1         1         0.5         32.86         20.973         11.888         35.807         21.87           8         9         4         1         1         0.5         32.86         20.973         11.888         35.807         21.87           8         9         4         1         1         0.5         32.86         20.973         11.888         35.807         21.87           8         9         4         1         1         0.5         37.223         26.997         20.452         37.815         27.48           8         2         95         4         1         1         0.5         26.165         23.375         26.95         26.94         27.88           8         22         95         5         1         1         0.5         24.19         27.73         27.43         27.43	711	8	7	92	4	-	-	3.6	30.073	20.264	9.81	31.677	21.016	10.661
8         8         95         4         1         0.5         29.112         19.134         9.978         29.484         19.531           8         8         95         4         1         0.5         32.86         20.973         11.888         35.807         21.87           8         8         95         4         1         1         0.5         32.86         20.973         11.888         35.807         21.87           8         8         95         4         1         1         0.5         37.223         26.305         20.215         36.863         27.109           8         8         95         4         1         1         0.5         33.475         26.305         20.452         37.815         27.48           8         22         95         5         1         1         0.5         26.165         23.375         2.8         25.694         23.288           8         22         95         5         1         1         0.5         24.19         22.79         1.4         25.443         23.509           8         22         95         5         1         1         0.5         26.32	TL-2	8	80	95	4	-	-	0.5	27.975	18.979	8.996	31.212	20.187	11.025
8         8         95         4         1         0.5         32.86         20.973         11.888         35.807         21.87           8         8         95         4         1         1         0.5         35.413         25.305         20.215         36.863         27.109           8         8         95         4         1         1         0.5         33.475         26.397         20.452         37.815         27.109           8         8         95         4         1         1         0.5         26.997         20.452         37.815         27.109           8         2         95         4         1         1         0.5         26.997         20.452         37.815         27.48         27.48           8         22         95         5         1         1         0.5         26.165         23.365         2.231         25.443         23.709           8         22         95         5         1         1         0.5         24.21         27.23         26.43         27.445         27.445           8         22         95         5         1         1         0.5         27.54	TL-3	8	8	95	4	-	-	0.5	29.112	19.134	9.978	29.484	19.531	9.952
8         8         95         4         1         1         10         35.413         26.305         20.215         36.863         27.109           8         9         4         2         1         10         37.223         26.997         20.452         37.815         27.48           8         95         4         1         1         0.5         33.475         23.173         10.302         35.645         27.48           8         22         95         6         1         1         0.5         26.165         23.375         2.8         25.694         23.307           8         22         95         5         1         1         0.5         26.165         23.342         2.231         25.694         23.307           8         22         95         5         1         1         0.5         24.19         22.79         1.4         25.443         23.509           8         22         95         5         1         1         0.5         26.32         24.28         2.04         26.94         23.791           8         28         28         5         1         1         0.5         26.32	TL-4	8	8	95	4	-	-	0.5	32.86	20.973	11.888	35.807	21.87	13.937
8         8         95         4         2         1         10         37.223         26.997         20.452         37.815         27.48           8         8         95         4         1         1         0.5         33.475         23.173         10.302         35.645         23.95           8         2         95         5         1         1         0.5         26.165         23.342         2.231         25.694         23.307           8         2         95         5         1         1         0.5         24.19         22.79         1.4         25.644         23.288           8         2         95         5         1         1         0.5         24.19         22.79         1.4         25.443         23.509           8         2         95         5         1         1         0.5         26.32         24.21         1.48         25.644         23.72           8         28         28         95         5         1         1         0.5         26.32         24.28         2.04         26.87         24.08           8         28         28         5         1         1 <td>TL-4</td> <td>8</td> <td>80</td> <td>95</td> <td>4</td> <td>-</td> <td>-</td> <td>10</td> <td>35.413</td> <td>25.305</td> <td>20.215</td> <td>36.863</td> <td>27.109</td> <td>19.508</td>	TL-4	8	80	95	4	-	-	10	35.413	25.305	20.215	36.863	27.109	19.508
8         8         95         4         1         0.5         33.475         23.173         10.302         35.645         23.95           8         22         95         5         1         1         0.5         26.165         23.365         2.8         25.694         23.307           8         22         95         5         1         1         0.5         24.19         22.79         1.4         25.443         23.288           8         22         95         5         1         1         0.5         24.19         22.79         1.4         25.443         23.589           8         22         95         5         1         1         0.5         24.19         22.79         1.48         25.644         23.789           8         28         29         5         1         1         0.5         26.32         24.28         2.04         26.87         24.08           8         28         29         5         1         1         8         27.54         25.73         1.81         26.9         24.45           8         23         95         5         1         1         0.5         37.038<	TL-4	8	8	95	4	2	-	10	37.223	26.997	20.452	37.815	27.48	20.669
8         22         95         5         1         0.5         26.165         23.365         2.8         25.694         23.307           8         22         95         5         1         1         0.5         24.19         23.422         2.231         25.784         23.288           8         22         95         5         1         1         0.5         24.19         22.79         1.4         25.433         23.509           8         22         95         5         1         1         0.5         26.32         24.21         1.48         25.644         23.72           8         28         95         5         1         1         0.5         26.32         24.28         2.04         25.64         23.72           8         28         95         5         1         1         0.5         27.54         25.73         1.81         26.9         24.45           8         23         95         5         1         1         1.5         30.132         27.273         2.86         32.791         27.531           8         23         95         5         1         1         0.5         37.	TL-5	8	80	95	4	-	-	0.5	33.475	23.173	10.302	35.645	23.95	11.695
8         2         95         6         1         1         7         25.654         23.422         2.231         25.784         23.288           8         2         95         5         1         1         0.5         24.19         22.79         1.4         25.443         23.509           8         2         95         5         1         1         16         25.69         24.21         1.48         25.664         23.72           8         28         95         5         1         1         0.5         26.32         24.28         2.04         26.87         24.08           8         28         95         5         1         1         8         27.54         25.73         1.81         26.9         24.45           8         23         95         5         1         1         0.5         37.038         30.947         6.09         40.029         32.057           8         23         95         5         1         1         0.5         37.901         31.55         6.351         40.883         32.45	A0-1	8	22	95	2	-	-	0.5	26.165	23.365	2.8	25.694	23.307	2.387
8         22         95         5         1         1         6.05         24.19         22.79         1.4         25.443         23.509           8         22         95         5         1         1         16         25.69         24.21         1.48         25.664         23.72           8         28         95         5         1         1         0.5         26.32         24.28         2.04         26.87         24.08           8         28         28         27.54         25.73         1.81         26.9         24.45           8         23         95         5         1         1         8         27.273         2.86         32.791         27.531           8         23         95         5         1         1         0.5         37.038         30.947         6.09         40.029         32.057           8         23         95         5         1         0.5         37.901         31.55         6.351         40.883         32.45	A0-1	8	22	95	2	-	-	17	25.654	23.422	2.231	25.784	23.288	2.496
8         22         95         5         1         1         6         25.69         24.21         1.48         25.664         23.72           8         28         95         5         1         1         0.5         26.32         24.28         2.04         26.87         24.08           8         28         95         5         1         1         8         27.54         25.73         1.81         26.9         24.45           8         23         95         5         1         1         1.5         30.132         27.273         2.86         32.791         27.531           8         23         95         5         1         1         0.5         37.038         30.947         6.09         40.029         32.057           8         23         95         5         1         0.5         37.901         31.55         6.351         40.883         32.45	A0-2	8	22	95	2	-	-	0.5	24.19	22.79	1.4	25.443	23.509	1.934
8         28         95         5         1         1         0.5         26.32         24.28         2.04         26.87         24.08           8         28         95         5         1         1         8         27.54         25.73         1.81         26.9         24.45           8         23         95         5         1         1         1.5         30.132         27.273         2.86         32.791         27.531           8         23         95         5         1         1         0.5         37.038         30.947         6.09         40.029         32.057           8         23         95         5         2         1         0.5         37.901         31.55         6.351         40.883         32.45	A0-2	8	22	95	5	-	-	16	25.69	24.21	1.48	25.664	23.72	1.944
8         28         95         5         1         1         8         27.54         25.73         1.81         26.9         24.45           8         23         95         5         1         1         1.5         30.132         27.273         2.86         32.791         27.531           8         23         95         5         1         1         0.5         37.938         30.947         6.09         40.029         32.057           8         23         95         5         2         1         0.5         37.901         31.55         6.351         40.883         32.45	LC-1	8	28	95	5	-	-	0.5	26.32	24.28	2.04	26.87	24.08	2.79
8         23         95         5         1         1         5         30.132         27.273         2.86         32.791         27.531           8         23         95         5         1         1         0.5         37.038         30.947         6.09         40.029         32.057           8         23         95         5         2         1         0.5         37.901         31.55         6.351         40.883         32.45	اد-1 1-2	8	28	95	2	-	1	8	27.54	25.73	1.81	26.9	24.45	2.45
8         23         95         5         1         1         0.5         37.038         30.947         6.09         40.029         32.057           8         23         95         5         2         1         0.5         37.901         31.55         6.351         40.883         32.45	MP-1	80	23	95	2	-	_	1.5	30.132	27.273	2.86	32.791	27.531	5.259
8         23         95         5         2         1         0.5         37.901         31.55         6.351         40.883         32.45	MP-2	8	23	95	2	-	1	0.5	37.038	30.947	60.9	40.029	32.057	7.972
	MP-2	80	23	95	2	2	-	0.5	37.901	31.55	6.351	40.883	32.45	8.433
														Sheet 8 of 10

	ì	Т	T	Т	Т	Т	Т	Т	Т	Т	Т	Т	T	Т	T	Т	Т	Т	Т	Т	T	Т	Ŧ
TOC (ma)	3 211	13 495	12 547	28 323	3 62	2005	2 2 2 8	2.433	8.913	6.524	9.893	10.599	8.628	7 938		8 533	6.598	1.899	2.298	2.853	2.901	2.766	
TIC (ma/L)	25 254	25.726	26.347	24.183	28 239	20:230	23.355	24.133	14.681	36.651	13.836	13.942	15.488	16.419		15.766	16.89	23.394	23.787	24.095	23.365	23.941	1
TC (ma/L)	28.465	39.221	38.894	52.506	31.859		25.583	26.566	23.594	39.913	23.729	24.541	24.116	24.357		24.299	23.488	25.293	26.085	26.947	26.265	26.707	
30C (mg/L)	2.47	8.997	9.091	15.039	2.794		1.7	1.55	6.83	5.173	7.319	8.363	7.486	8.018		7.64	6.792	1.17	1.78	1.63	1.55	1.71	
DIC (mg/L)	22.689	24.87	26.055	23.299	26.995		23.9	24.73	13.788	35.191	13.174	13.356	15.181	15.334		15.142	15.536	22.84	24.21	24.64	24.01	24.25	
ar Round Rep Split Depth (m) TDC (mg/L) DIC (mg/L) DOC (mg/L) TC (mg/L) TIC (mg/L) TOC (mg/L)	25.159	33.867	35.146	38.339	29.789		25.6	26.28	20.618	37.778	20.493	21.72	22.667	23.353		22.783	22.328	24.01	25.99	26.27	25.56	25.96	
Depth (m)	3	0.5	0.7	0.5	-	-	0.5	1	0.5	8	0.5	0.5	0.5	-	-	-	-	0.5	15	1	0.5	12	
Split	-	1	1	-	-	2	-	-	1	1	1	1	1	-	2	-	-	-	1	-	-	-	
Rep	1	1	2	1	-	-	1	1	1	1	1	2	1	1	-	-	1	-	-	-	-	-	
Round	9	5	9	5	2	5	5	5	5	5	5	5	5	5	5	5	5	5	S	2	ß	5	
Year	96	92	92	92	96	92	98	95	92	92	92	92	92	92	98	92	92	92	92	92	92	92	
Day	23	24	24	24	23	23	22	22	21	21	21	21	21	21	21	21	21	22	22	22	22	22	
Month	8	8	8	8	8	8	80	8	æ	8	8	8	8	8	8	8	8	8	80	80	8	8	
Station Month Day Ye	MP-2	PL-1	PL-1	PL-2	PN-1	PN-1	SA-1	SA-1	SC-1	SC-1	SJ-1	SJ-1	SJ-2	SJ-3	SJ-3	SJ-4	SJ-5	SJB-1	SJB-1	SJB-2	SJB-3	SJB-3	

ig/L)	5		_	9	14	35	8,	5	ا۾		26	,	2	21	of 10
TOC (m	4.815	·	2.777	2.466	6.434	3.535	7.278	1	8.138	•	6.856		4.037	5.351	Choot 10 of 10
TIC (mg/L)	24.709	•	24.2	24.411	22.318	23.643	24.071		22.547		23.591		25.557	26.206	
TC (mg/L)	29.525		26.977	26.877	28.752	27.178	31.349		30.685		30.447		29.594	31,557	
DOC (mg/L)	2.65		1.57	1.52	5.945	3.204	7 588	2000	5.968		5.057		3.018	4.585	
DIC (mg/L)	25.23	•	23.6	25.09	23.259	23,653	22 688	22:000	23.111		22 1/10	23.173	23.196	25.049	
rear Round Rep Split Depth (m) TDC (mg/L) DIC (mg/L) DOC (mg/L) TC (mg/L) TIC (mg/L) TOC (mg/L)	27.88		25.17	26.61	29.204	26.857	37.000	70.270	29.079		300.00	20.200	26.213	29.634	
Depth (m)	1.5	1.5	0.5	10	2	3 6	, ,	0.5	0.5	0.5		0.0	12	-	
Split	-	2	-	-	<u> </u> -	<u> </u> -	<u>- </u>	-	-	,	<u>'</u>	_	1	-	
Rep	-	-	-	1	1	1	1		-	ŀ	1	-	1	-	
Round	c	ıc.	ی ار	,	,	, ,	,	2	2	٢	,	വ	2		,
11 2		8	3 8	3 8	3 8	S d	S	92	96	1	G G	92	95	8 8	3
280	22	33	3 6	22	3 6	7 5	7	24	24	1 5	7	24	24	3 2	1
Month	α	, a		0	٥	ه اه	»	ω	œ	, ,	°	80	٩		۰
Ctation	S IB.A	7 00 0	1.000	2-900	0-900			TL-2	1	2	11-3	TL-4	F		3 3

Solids and Chlorophyll Concentrations for Solids and Chlorophyll Concentrations for Solids         Solids and Chlorophyll Concentrations for Solids         Solids and Solids         Solids <th< th=""><th>Table C8</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<>	Table C8										
VSS (mg/L)  0 0 0 4 4 4 6 6 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Solids ar	nd Chlore	phyl	Conc	entration	is for	Open-	water Statio	n Locations		
6         26         36         1         1         1         0.5         62         0           1         6         26         35         1         1         1         1         60         0         0           2         6         26         35         1         1         1         1         60         0         0         0           2         6         26         35         1         1         1         16         60         0	Station	Month	Day	Year	Round	Rep	Split	Depth (m)	TSS (ma/L)	VSS (mg/l)	CHI A (I) A
6         26         95         1         1         1         21         60         0           6         26         95         1         1         1         1         60         0         0           6         26         95         1         1         1         1         60         0         0           6         29         95         1         1         1         64         4         4         4           6         29         95         1         1         1         8         81         6         7         6         6         6         6         6         6         6         7         9         6         7         9         6         7         9         6         7         9         6         7         9         6         7         9         6         7         9         6         7         9         7         1         1         1         0         9         7         4         9         6         7         9         1         1         1         0         9         7         4         9         1         1         1	A0-1	9	26	92	-	-	-	0.5	62		0.12
6         26         95         1         1         1         0.5         61         4           6         26         95         1         1         1         1         6         54         61         4           6         29         95         1         1         1         16         54         4         4           6         29         95         1         1         1         16         64         4         4           6         29         95         1         1         1         1         8         81         6         6           6         27         95         1         1         1         1.5         64         2           6         28         95         1         1         1         0.5         49         5           6         28         95         1         1         1         0.5         89         6         6           6         28         95         1         1         1         0.5         84         6           6         28         95         1         1         1         0.5         31<	A0-1	9	56	92	-	-	-	21	90		0.5
6         26         36         1         1         1         6         54         6           6         29         35         1         1         1         16         54         4           6         29         35         1         1         1         0.5         64         4           6         29         35         1         1         1         8         81         6           6         27         95         1         1         1         1.5         61         0           6         27         95         1         1         1         0.5         49         5           6         28         95         1         1         1         0.5         45         5           6         28         95         1         1         1         0.5         89         0           6         28         95         1         1         1         0.5         84         6           6         28         95         1         1         1         0.5         31         0           6         28         95         1	A0-2	9	26	95	-	-	-	0.5	5 2		0.27
6         29         95         1         1         1         1         1         1         1         1         1         1         1         1         4	A0-2	9	26	95	-	-	1.	2.5		4	0.27
6         29         95         1         1         0.5         6         4           6         29         95         1         1         1         8         81         6           6         27         95         1         1         1         15         61         0           6         27         95         1         1         1         0.5         49         5           6         27         95         1         1         1         0.5         49         5           6         28         95         1         1         1         0.5         45         2           6         28         95         1         1         1         0.5         89         0           6         26         95         1         1         1         0.5         84         6           6         28         95         1         1         1         0.5         31         0           6         28         95         1         1         1         8         52         6           6         28         95         1         1         1	LC-1	9	29	9.5	-	-	- -	9	54	2	1.47
6         29         95         1         1         2         0.5	15.	u	200	3	-	-	-	0.5	64	4	0.53
6         29         95         1         1         1         8         81         6           6         27         95         1         1         1         1.5         61         0           6         27         95         1         1         1         0.5         49         5           6         28         95         1         1         1         0.5         92         24         2           6         28         95         1         1         1         0.5         92         24         2           6         26         26         95         1         1         1         0.5         92         24         1           6         26         95         1         1         1         0.5         54         1         6           6         28         95         1         1         1         0.5         54         6           6         28         95         1         1         1         0.5         32         6           6         28         95         1         1         1         1         20         2	3	9	S	C .		-	2	0.5			•
6         27         95         1         1         1         1.5         61         0.0           6         27         95         1         1         1         0.5         49         5           6         28         95         1         1         1         0.5         45         2           6         28         95         1         1         1         0.5         92         24           6         28         95         1         1         1         0.5         89         0           6         26         95         1         1         1         0.5         84         6         1           6         26         95         1         1         1         1.5         64         6         6           6         28         95         1         1         1         1         20         20         6         6           6         28         95         1         1         1         1         20         20         2         6           6         28         95         1         1         1         1         20 <t< td=""><td>-  </td><td>٥</td><td>53</td><td>92</td><td>-</td><td>-</td><td>-</td><td>8</td><td>81</td><td>9</td><td>3.34</td></t<>	-	٥	53	92	-	-	-	8	81	9	3.34
6         27         95         1         1         1         0.5         49         5           6         28         95         1         1         1         3.5         64         2           6         28         95         1         1         1         0.5         45         2           6         28         95         1         1         1         0.5         89         0           6         26         95         1         1         1         1.5         89         0           6         26         95         1         1         1         12.5         64         6           6         28         95         1         1         1         0.5         31         0           6         28         95         1         1         1         20         20         2           6         28         95         1         1         1         0.5         32         1           6         28         95         1         1         1         0.5         32         1           6         28         95         1	MP-1	9	27	92	-	-	-	1.5	61	0	28
6         27         95         1         1         1         3.5         64         2           6         28         95         1         1         1         0.5         45         2           6         28         95         1         1         1         0.5         92         24           6         26         95         1         1         1         0.5         89         0           6         26         95         1         1         1         0.5         64         6           6         28         95         1         1         1         0.5         31         0           6         28         95         1         1         1         8         52         6           6         28         95         1         1         1         20         2           6         28         95         1         1         1         0.5         32         1           6         28         95         1         1         1         0.5         32         1           6         28         95         1         1 <t< td=""><td>MP-2</td><td>9</td><td>27</td><td>92</td><td>1</td><td>-</td><td>-</td><td>0.5</td><td>49</td><td>L.</td><td>59.8</td></t<>	MP-2	9	27	92	1	-	-	0.5	49	L.	59.8
6         28         95         1         1         0.5         45         2           6         28         95         1         1         1         0.5         92         24           6         26         95         1         1         1         1.5         89         0           6         26         95         1         1         1         0.5         54         1           6         28         95         1         1         1         12.5         64         6           6         28         95         1         1         1         8         52         6           6         28         95         1         1         1         1         20         2           6         28         95         1         1         1         1         20         2           6         28         95         1         1         1         0.5         32         1           6         28         95         1         1         1         1         20         2           6         28         95         1         1         1	MP-2	9	27	98	-	-	-	3.5	64	2	2.5
6         28         95         1         1         1         0.5         92         24           6         26         95         1         1         1         1.5         89         0           6         26         95         1         1         1         0.5         54         1         1           6         28         95         1         1         1         12.5         64         6         6           6         28         95         1         1         1         8         52         6           6         28         95         1         1         1         20         2           6         28         95         1         1         1         20         2           6         28         95         1         1         1         0.5         32         1           6         28         95         1         1         1         0.5         32         1           6         28         95         1         1         1         1         20         2	PL-1	9	28	98	-	-	-	0.5	45	2	1 20
6         27         95         1         1         1         1.5         89         24           6         26         95         1         1         1         0.5         54         1           6         26         95         1         1         1         12.5         64         6           6         28         95         1         1         1         0.5         31         0           6         28         95         1         1         1         20         2           6         28         95         1         1         1         0.5         32         1           6         28         95         1         1         1         0.5         32         1           6         28         95         1         1         1         0.5         32         1           6         28         95         1         1         1         1         0.5         32         1	PL-2	9	28	95	-	-	-	C C	92	7 6	04.7
6         26         95         1         1         1         0.5         54         1           6         26         95         1         1         1         12.5         64         6           6         28         95         1         1         1         0.5         31         0           6         28         95         1         1         1         8         52         6           6         28         95         1         1         1         20         2           6         28         95         1         1         1         0.5         32         1           6         28         95         1         1         1         0.5         32         1	PN-1	9	27	95	-	1-	-	4	25	47	50.1
6         26         95         1         1         1         12.5         64         6           6         28         95         1         1         1         0.5         31         0           6         28         95         1         1         1         8         52         6           6         28         95         1         1         1         20         2           6         28         95         1         1         1         0.5         32         1           6         28         95         1         1         1         0.5         32         1           6         28         95         1         1         1         0.5         32         1	SA.1	u	20	2	1	†	+	2	60	٥	29.1
6         26         95         1         1         1         6         64         6         6         28         95         1         1         1         0.5         31         0         6           6         28         95         1         1         1         1         20         2         6         8           6         28         95         1         1         1         1         0.5         32         1         1           6         28         95         1         1         1         1         21         0         1	5	5	8	GG.	-	-	-	0.5	54	-	5.34
6         28         95         1         1         1         0.5         31         0           6         28         95         1         1         1         8         52         6           6         28         95         1         1         1         20         2           6         28         95         1         1         1         0.5         32         1           6         28         95         1         1         1         1         21         0	SA-1	9	56	95	-	-	-	12.5	64	9	17.6
6         28         95         1         1         1         8         52         6           6         28         95         1         1         1         20         2           6         28         95         1         1         1         0.5         32         1           6         28         95         1         1         1         1         21         0	SC-1	9	28	95	-	-	-	0.5	31	0	
6         28         95         1         1         1         1         20         2           6         28         95         1         1         1         0.5         32         1           6         28         95         1         1         1         1         21         0	SC-1	9	28	92	1	-	1	8	52	9	3.47
6         28         95         1         1         1         0.5         32         1           6         28         95         1         1         1         1         21         0	SJ-1	9	28	92	1	-	-	-	20	6	29.1
6 28 95 1 1 1 1 1 0	SJ-2	9	28	92	1	-	-	0.5	32	-	26.2
Sheet 1 of 1	SJ-3	9	28	92	-	-	-	-	21	0	14.7
											Sheet 1 of 10

								_	_												-		
CHLA (ug/L)	15.2	15.8	32	0.27	0.27	5.61	4.2	3.74	28	11.5	21.4	6.0	6.68	9.88	23.8	2.4	57	0.67	0.13	0.53	0.13	0.67	Sheet 2 of 10
VSS (mg/L)	1	0	9	4	9	2	2	9	3	9	4	4	9	7	9	2	10	9	10	2	1	7	
TSS (mg/L)	20	56	99	99	99	82	69	69	89	99	7.2	29	90	29	51	29	99	83	71	61	68	9/	
Depth (m)	1	9.0	9	9.0	14.5	0.5	9.0	12	9'0	9.0	11	1.5	9.0	9.0	9.0	13	0.5	0.5	21	0.5	21	9.0	
Split	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Rep	ı	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Round	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	
Year	92	92	92	95	92	92	92	98	92	92	92	92	92	92	92	95	92	95	92	92	95	98	
Day	28	28	28	26	26	26	26	26	26	26	26	26	29	29	29	29	28	10	10	10	10	13	
Month	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	7	7	7	7	7	
Station	SJ-4	SJ-5	SJ-5	SJB-1	SJB-1	SJB-2	SJB-3	SJB-3	SJB-4	SJB-5	SJB-5	TL-1	TL-2	TL-3	TL-4	TL-4	TL-5	A0-1	A0-1	A0-2	A0-2	LC-1	

CHLA (ug/L)	0.22	54.5	7.57	16.3	43.2	31.5	34.7		5.84	4.81	2.67	29.4	2.05	37.6	103.5	9.08	4.84	3.74	•	22.2	1.47	0.27	Sheet 3 of 10
VSS (mg/L)	37	7	7	11	6	28	24	6	9	2	8	3	17	1	8	3	0	4	2	9	4	7	
TSS (mg/L)	198	8/	61	11	62	116	68	75	9/	99	82	43	69	35	36	36	30	38	67	99	74	70	
Depth (m)	9	1.5	9.0	4	1	0.5	0.5	1	1	9'0	. 12	9.0	6	0.5	0.5	0.5	1	1	9.0	3	0.5	16	
Split	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Rep	1	1	ı	1	1	1	2	1	7	1	1	1	1	1	1	1	ı	2	1	1	1	1	
Round	2	2	2	2	2	2	2	2	2	2	2	7	2	2	2	2	2	2	2	2	7	2	
Year	98	95	92	98	95	95	95	92	92	95	98	98	95	98	95	95	95	98	92	92	92	92	
Day	13	13	13	13	12	12	12	13	13	10	10	11	11	11	11	11	11	11	11	11	10	10	
Month	۷	4	4	2	4	7	7	4	7	4	7	7	۷	7	7	7	7	7	7	7	7	7	
Station	LC-1	MP-1	MP-2	MP-2	PL-1	PL-2	PL-2	PN-1	PN-1	SA-1	SA-1	SC-1	SC-1	SJ-1	SJ-2	SJ-3	SJ-4	SJ-4	SJ-5	SJ-5	SJB-1	SJB-1	

_	_	-	ī	_	Т		_	_	_	_		$\overline{}$	-	=i	7	1		Т	<del>-</del> ĭ	7			0
CHLA (ug/L)	5.34	4.81	٠	3.2	•	2.67	•	6.9	3.34	3.07	4.77	7.12	14.7	26.4	15.1	٠	•	-	0	0.13	0.8	1.33	Sheet 4 of 10
VSS (mg/L)	8	4	•	0	•	5	٠	9	10	6	10	14	10	8	10	7	10	10	6	10	10	10	
TSS (mg/L)	77	78	•	72	•	80	•	81	87	85	75	82	85	71	64	84	93	94	100	63	47	74	
Depth (m)	0.5	0.5	0.5	0.5	0.5	11	11	1.5	0.5	11	1.5	0.5	0.5	1.5	1	0.5	18	0.5	18	0.5	0.5	7	
Split	1	1	2	1	1	1	2	1	1	1	-	-	-	-	-	1	-	1	1	1	1	1	
Rep	1	1	1	2	3	1	1	1	1	-	-	1	-	1	1	1	1	1	1	1	2	-	
Round	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	ဗ	3	3	3	3	3	က	
Year	92	92	98	95	92	95	92	95	95	95	95	95	95	95	92	98	98	96	96	92	92	95	
Day	10	10	10	10	10	10	10	0,	13	13	10	12	12	12	12	24	24	24	24	31	31	31	
Month	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
Station	SJB-2	SJB-3	SJB-3	SJB-3	SJB-3	SJB-3	SJB-3	SJB-4	SJB-5	SJB-5	T.1	TL-2	TL-3	TL-4	TL-5	A0-1	A0-1	A0-2	A0-2	LC-1	LC-1	LC-1	

	_				-		<del>-</del>			_	-	_	_	<del>- T</del>	<del>-</del> T	_	Т		-				The state of the sta
CHLA (ug/L)	•	34.7	67.4	•	56.7	15	133.5	72.7	2.67	4.17	2.54	18.7	1.87	23.6	70	1	0.27	0.18	19.7	11	3.12	•	Sheet 5 of 10
VSS (mg/L)	6	9	17	17	0	6	7	13	0	11	.9	1	0	4	3	3	ဗ	9	2	6	10	11	
TSS (mg/L)	63	48	83	106	27	87	58	72	2	100	94	34	10	41	35	34	40	41	29	67	77	87	
Depth (m)	7	0.5	3	3	0.5	ε	0.5	0.5	ı	0.5	11	0.5	8	1	0.5	1	1	1	0.5	5	0.5	16	
Split	2	-	-	2	1	1	1	1	1	-	-	-	1	-	1	1	1	1	-	-	-	-	
Rep	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	1	1	-	-	-	
Round	3	3	3	3	3	3	3	3	3	3	3	3	က	က	က	3	3	3	Э	3	ဗ	3	
Year	98	95	95	95	92	92	95	95	95	95	95	95	96	92	95	95	95	96	95	95	95	95	
Day	31	27	27	27	27	27	25	25	27	24	24	26	26	26	26	26	26	26	26	26	24	24	
Month	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
Station	LC-1	MP-1	MP-1	MP-1	MP-2	MP-2	PL-1	PL-2	PN-1	SA-1	SA-1	SC-1	SC-1	SJ-1	SJ-2	SJ-3	SJ-3	SJ-4	SJ-5	SJ-5	SJB-1	SJB-1	

100000	Month	Day	Year	Round	Rep	Split	Depth (m)	TSS (mg/L)	VSS (mg/L)	CHLA (ug/L)
SJB-2	7	24	92	3	-	-	1	113	14	4.03
SJB-3	7	24	92	3	-	-	0.5	96	12	1.6
SJB-3	7	24	92	9	-	1	11	101	10	2.4
SJB-4	7	24	95	3	-	-	1.5	119	13	11.2
SJB-4	7	24	92	3	2	-	1.5	68	10	18
SJB-5	7	24	92	3	-	-	0.5	92	12	9.61
SJB-5	7	24	92	3	-	1	11	110	11	3.17
1-1-	7	24	95	в	-	-	1.5	69	9	6.68
TL-2	7	25	92	က	-	-	0.5	63	4	4.45
T.L-3	7	25	92	3	-	-	0.5	61	4	19.1
TL-4	7	25	92	က	-	-	1 .	92	6	39.2
TL-5	7	25	92	က	-	-	0.5	99	2	40.9
A0-1	8	7	92	4	-	1	0.5	63	9	0.27
A0-1	8	7	98	4	1	-	18	69	7	0.4
A0-2	8	7	92	4	-	-	0.5	99	8	0.13
A0-2	8	7	92	4	1	1	15	63	9	0.13
LC-1	8	10	98	4	1	-	0.5	68	1	2
LC-1	8	10	98	4	2	1	0.5	68	5	1.07
L:-1	8	10	98	4	1	1	5	75	7	2.27
MP-1	8	10	98	4	-	1	0.5	51	3	7.74
MP-1	8	10	98	4	1	1	3	74	3	14.2
MP-2	8	5	95	4	-	-	0.5	- 29	3	5.87
										Sheet 6 of 10

					_					_													
CHLA (ug/L)	46.5	74.8	•	40	49.4	•	1.56	2	1.71	1.72	•	41.1	51.5	1.87	•	2.1	2.67	29.1	1.07	0.33	5.61	68'0	Sheet 7 of 10
VSS (mg/L)	10	25	28	24	9	•	9	8	ε	31	•	4	4	9	1	1	3	2	9	4	7	12	
.TSS (mg/L)	72	100	102	92	29	•	23	72	27	06	•	128	37	30	27	34	98	32	89	92	65	72	
Depth (m)	3	0.5	0.5	0.5	1	1	0.5	12	0.5	8	8	2	0.5	1	1	1	1	1	0.5	15	1	0.5	
Split	1	1	2	1	1	2	1	1	1	1	2	1	1	1	2	1	1	1	1	1	1	1	
Rep	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	
Round	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	. 4	4	4	4	4	
Year	92	95	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	
Day	10	8	8	8	10	10	7	7	6	6	6	6	6	6	6	6	6	6	7	7	7	7	
Month	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
Station	MP-2	PL-1	PL-1	PL-2	PN-1	PN-1	SA-1	SA-1	SC-1	SC-1	SC-1	SJ-1	SJ-2	SJ-3	SJ-3	SJ-4	SJ-4	SJ-5	SJB-1	SJB-1	SJB-2	SJB-3	

Station	Month	Day	Year	Round	Rep	Split	Depth (m)	TSS (mg/L)	VSS (mg/L)	CHLA (ug/L)
SJB-3	8	7	96	4	1	1	11	70	9	3.47
SJB-4	8	7	98	4	1	-	1	73	7	2.86
SJB-4	8	7	98	4	-	2	1	70	8	•
SJB-5	8	7	98	4	-	-	0.5	64	12	3.56
SJB-5	8	7	98	4	-	-	10	77	10	1.07
TL-1	8	7	98	4	-	-	0.5	64	10	2.67
TL-1	8	7	98	4	1	1	3.6	82	11	3.62
TL-2	8	8	98	4	-	-	0.5	92	6	6.45
TL-3	8	8	98	4	-	1	0.5	93	12	6.45
TL-4	8	8	98	4	-	-	0.5	55	4	21.4
TL-4	8	8	96	4	1	-	10	100	14	8.0
TL-4	8	8	98	4	2	-	10	87	11	4.39
TL-5	8	8	92	4	1	1	0.5	72	9	85.4
A0-1	8	22	92	5	1	1	0.5	99	5	0.67
A0-1	8	22	98	5	1	-	17	99	12	0.53
A0-2	8	22	92	5	1	1	0.5	72	6	0.4
A0-2	8	22	92	5	1	1	16	65	5	0.4
LC-1	8	28	92	5	1	-	0.5	75	7	3.2
LC-1	8	28	92	5	-	-	8	84	11	4.81
MP-1	8	23	92	5	1	1	1.5	63	6	59.5
MP-2	8	23	98	5	.1	-	0.5	51	6	34.2
MP-2	8	23	92	5	2	-	0.5	40	8	30.2
										Sheet 8 of 10

	T	_	<del></del>	<del></del>	T .	_	_	T -		_	_	_	_	_	_	_	_	_	_	_	_	-	=
CHLA (ug/L)	17.4	68.8	54.7	117.4	45.4		2.4	1.84		2.8	95.6	88.4	31.5	53.4		46.2	25.4	4.81	3.07	8.54	6.94	5.34	Sheet 9 of 10
VSS (mg/L)	5	5	0	22	9	7	7	10	5	7	13	80	6	8	7	6	4	9	9	15	10	80	
TSS (mg/L)	99	52	55	73	69	67	63	89	35	67	45	36	38	43	44	47	40	59	63	72	57	62	
Depth (m)	3	0.5	0.7	0.5	1	1	0.5	11	0.5	8	0.5	0.5	0.5	-	-	-	-	0.5	15	1	0.5	12	
Split	1	1	1	1	1	2	-	-	-	1	1	1	1	1	2	-	1	1	1	1	1	1	
Rep	1	1	7	1	-	-	1	-	-	1	1	2	1	1	-	1	1	1	1	1	1	1	
Round	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	. 5	5	5	5	5	5	
Year	92	95	95	92	92	92	92	92	92	92	92	92	92	95	92	92	95	92	92	92	92	92	
Day	23	24	22	24	23	23	22	22	21	21	21	21	21	21	21	21	21	22	22	22	22	22	
Month	8	8	8	8	8	8	8	8	8	8	8	8	8	8	80	8	80	8	8	8	8	8	
Station	MP-2	PL-1	PL-1	PL-2	PN-1	PN-1	SA-1	SA-1	SC-1	SC-1	SJ-1	SJ-1	SJ-2	SJ-3	SJ-3	SJ-4	SJ-5	SJB-1	SJB-1	SJB-2	SJB-3	SJB-3	

Station	Month	Day	Year	Round	Rep	Split	Depth (m)	TSS (mg/L)	VSS (mg/L)	CHLA (ug/L)
S.IB.4	8	22	95	25	-	-	1.5	63	5	38.4
S.IR-4		22	95	2	-	2	1.5	70	12	•
S.18-5	0 00	22	95	5	-	-	0.5	69	12	10.6
S.JB-5	0	22	95	2	-	-	10	75	7	5.07
F		22	95	5	-	-	0.5	90	9	14.7
F		24	95	5	-	-	8	56	۷ .	3.6
11.2	8	24	95	5	-	-	0.5	58	5	14.2
1 1		24	95	2	-	-	0.5	99	10	29.4
- F	0 00	2	95	2	-	2	0.5	99	8	•
1 F		24	95	2	-	-	0.5	62	7	32
1 -	0 00	24	95	25	-	-	12	88	16	1.34
1 - 2	8	24	95	2	-	-	1	62	8	11.2
										Sheet 10 of 10

Table C9	-		,	•		,	•	
Fecal Co	liform En	umera	tion Da	ata fo	r Oper	-water Sam	Fecal Coliform Enumeration Data for Open-water Sampling Locations	
Station	Month	Day	Year	Rep	Split	Depth (m)	FecCol (MPN/100 ml)*	FecSub
A0-1	9	26	96	-	1	0.5	-888	<2
A0-2	9	26	92	1	1	0.5	27	
SJB-1	9	26	92	1	1	0.5	8	
SJB-1	9	26	98	1	1	14.5		
SJB-2	9	26	92	-	-	0.5	-888	<2
SJB-3	9	26	98	-		0.5	-888	<2
SJB-3	9	26	92	-	-	12	•	
SJB-4	9	26	95	-	-	0.5	-888	<2
SJB-5	9	26	95	-	-	0.5	-888	<2
SJB-5	9	26	92	-	1	11	•	
SA-1	9	26	98	-	-	0.5	23	
SA-1	9	26	92	-	-	12.5	•	
LC-1	9	29	92	1	1	0.5	-888	<2
اد 1-	9	29	98	1	1	8	80	
PN-1	9	27	98	1	1	1.5	5400	
MP-1	9	27	98	1	1	1.5	790	
MP-1	9	27	92	1	1	3	•	
MP-2	9	27	98	1	1	0.5	24000	
								Sheet 1 of 10
* Value o	f -888 indic	ates lim	it of me	asuren	nent not	met (<) or exc	* Value of -888 indicates limit of measurement not met (<) or exceeded (>). See FECSUB for measurement	sasurement

Value of -888 indicates limit of measurement not met (< limit value (in MPN/100mL)

Station	Month	Day	Year	Rep	Split	Depth (m)	FecCol (MPN/100 ml)*	FecSub
MP-2	9	27	95	-	-	3.5	230	
5.1.5	9	28	95	-	1	1	3000	
\$1.2	9	28	95	1	-	0.5	0006	
S.J.3	9	28	95	-	-	1	-888	>160000
S.J-4	9	28	95	-	-	1	20	
5.1.5	9	78	95	-	-	0.5	140	
S1-5	9	28	95	-	-	9	-888	<2
SC-1	9	78	95	-	-	0.5	23	
SC-1	9	28	95	-	-	8	-888	<2
1	9	26	95	-	-	1.5	240	
- F	9	26	95	-	-	3.6		
TI.2	۳	29	95	-	-	0.5	2	
71.2	٥	20	95	Ŀ	-	0.5	110	
2 -		200	95	Ŀ	-	0.5	240	
*   ·	9 4	3 8	95	1	-	13	888-	<2
1 F	ی د	3 8	95	1-	-	0.5	23	
2 -	٥	2 8	95	-	-	0.5	230	
2 6	٥	2	95	_	-	0.5	-888	<2
7 6	,	9	95	-	-	0.5	-888	<20
A0-2	,	2	95	-	-	0.5	-888	<20
								Sheet 2 of 10
• Value o	f -888 indi	cates lir	nit of m	easure	ment no	ot met (<) or ex	Value of -888 indicates limit of measurement not met (<) or exceeded (>). See FECSUB for measurement	easurement
limit va	timit value (in MPN/100mL)	4/100m						
5 A 3 E E	· on		ī					

Station	Month	Day	Year	Rep	Split	Depth (m)	FecCol (MPN/100 ml)*	FecSub
SJB-1	7	10	96	1	1	0.5	888-	<20
SJB-1	7	10	92	-	1	14.5	888-	<20
SJB-2	7	10	92	-	1	0.5	-888	<20
SJB-3	7	10	95	1	1	0.5	-888	<20
SJB-3	7	10	98	1	1	12	-888	· <20
SJB-4	7	10	96	1	1	0.5	-888	<20
SJB-5	7	13	98	1	1	0.5	230	
SJB-5	7	13	92	1	1	11	230	
SA-1	7	10	95	-	1	0.5	-888	<20
SA-1	7	10	95	-	-	12.5	-888	<20
ان 1	7	13	98	1	1	0.5	-888	<20
LC-1	7	13	92	1	1	8	230	
PN-1	7	13	92	1	1	1.5	5000	
MP-1	7	13	92	-	1	1.5	2400	
MP-1	7	13	98	1	1	ε	•	
MP-2	7	13	98	1	1	0.5	-888	> 16000
MP-2	7	13	98	1	1	3.5	-888	<20
SJ-1	7	11	98	+	1	1	40	
SJ-2	7	Ξ	95	1	-	0.5	-888	> 16000
SJ-3	7	=	95	-	1	1	2400	
								Sheet 3 of 10
• Value of	f -888 indic	ates lim	it of me	asuren	nent not	met (<) or exe	* Value of -888 indicates limit of measurement not met (<) or exceeded (>). See FECSUB for measurement	asurement

limit value (in MPN/100mL)

Station	Month	Day	Year	Rep	Split	Depth (m)	FecCol (MPN/100 mi)*	FecSub
SJ-4	7	11	96	1	1	1	-888	<20
SJ-5	7	11	92	1	1	0.5	300	
SJ-5	7	11	95	1	1	9	-888	<20
SC-1	7	=	98	1	1	0.5	230	
SC-1	7	Ξ	92	-	1	8	888-	<20
TL-1	7	9	92	-	1	1.5	-888	<20
17-1	7	10	98	1	1	3.6		
TL-2	7	12	98	1	1	0.5	110	
TL-3	7	12	95	1	1	0.5	500	
TL-4	7	12	95	1	-	0.5	-888	<20
TL-4	7	12	98	1	1	13	•	
TL-5	7	12	95	1	1	0.5	-888	<20
PL-1	7	12	95	-	1	0.5	-888	<20
PL-2	7	12	95	-	-	0.5	-888	<20
A0-1	7	24	95	-	1	0.5	-888	<20
A0-2	7	24	98	1	1	0.5	-888	<20
SJB-1	7	24	92	1	1	0.5	-888	<20
SJB-1	7	24	98	-	1	14.5	-888	<20
SJB-2	7	24	98	1	1	0.5	130	
SJB-3	7	24	96	-	1	0.5	2400	
								Sheet 4 of 10
* Value o	f -888 indic	ates lin	nit of me	asurer	nent no	t met (<) or ex	* Value of -888 indicates limit of measurement not met (<) or exceeded (>). See FECSUB for measurement	asurement
limit val	limit value (in MPN/100mL)	/100mL	~					

Station	Month	Day	Year	Rep	Split	Depth (m)	FecCol (MPN/100 ml)*	FecSub
SJB-3	4	24	<u> </u>	1	1	12	80	
SJB-4	7	24	96	1	-	0.5	230	
SJB-5	7	24	92	-	-	0.5	2400	
SJB-5	7	24	98	-	1	11	-888	<20
SA-1	7	24	92	1	1	0.5	-888	<20
SA-1	7	24	98	1	1	12.5	230	
LC-1	7	31	98	1	1	0.5	-888	<20
LC-1	7	31	96	1	1	8	-888	<20
PN-1	7	27	<u> </u>	1	1	1.5	240000	
MP-1	7	27	96	1	1	1.5	240000	
MP-1	7	27	96	1	1	3	2300	
MP-2	7	27	96	1	1	0.5	240000	
MP-2	7	27	96	1	1	3.5	24000	
SJ-1	7	26	92	1	1	1	270	
SJ-2	7	26	92	-	1	0.5	-888	> 16000
SJ-3	7	26	96	1	1	1	-888	<20
SJ-4	7	26	92	1	. 1	1	-888	<20
SJ-5	7	26	96	1	1	0.5	-888	<20
SJ-5	7	26	98	1	1	9	-888	<20
SC-1	7	26	98	1	1	0.5	-888	<20
								Sheet 5 of 10

Value of -888 indicates limit of measurement not met (<) or exceeded (>). See FECSUB for measurement limit value (in MPN/100mL)

Station	Month	Day	Year	Rep	Split	Depth (m)	FecCol (MPN/100 ml)*	FecSub
SC-1	7	26	95	-	-	8	-888	<20
17-1	7	24	95	-	1	1.5	230	
17-1	7	24	98	1	1	3.6		
TL-2	7	25	92	-	1	0.5	220	
TL-3	7	25	92	-	1	0.5	140	
TL-4	7	25	95	-	1	0.5	-888	<20
TL-4	7	25	95	-	1	13		
TL-5	_	25	95	٦	1	0.5	. 140	
P1	_	25	95	-	1	0.5	70	
PI-2	_	25	95	-	-	0.5	-888	<20
A0-1		-	95	-	-	0.5	-888	<20
A0-2		-	95	-	-	0.5	-888	<20
S 18-1	α	1	95	-	-	0.5	230	
0 P	0 00	-	95	-	Ŀ	14.5	500	
S.B.2		-	95	<u> -</u>	-	0.5	170	
S.18-3		7	95	-	-	0.5	500	
S.JB-3	8	_	95	-	-	12	80	
SJB-4	8	^	95	-	1	0.5	1100	
SJB-5	8	^	95	-	1	0.5	-888	> 1600000
S.JB-5	8	7	95	-	1	11	300	
								Sheet 6 of 10
* Value	f -888 indi	cates lir	nit of m	easure	ment no	t met (<) or ex	Value of -888 indicates limit of measurement not met (<) or exceeded (>). See FECSUB for measurement	easurement
		001	-					
imit va	limit value (in MPN/ IOOML)		3			,		

Station	Month	Day	Year	Rep	Split	Depth (m)	FecCol (MPN/100 ml)*	FecSub
SA-1	8	7	92	1	1	9.0	40	
SA-1	8	7	92	1	-	12.5	230	
LC-1	8	10	92	1	-	9.0	230	
LC-1	8	10	98	1	-	8	-888	<20
PN-1	8	10	92	-	-	1.5	24000	
MP-1	8	10	96	-	-	1.5	-888	> 160000
MP-1	8	10	98	-	-	8	24000	
MP-2	8	10	96	-	-	0.5	-888	> 160000
MP-2	8	10	98	-	-	3.5	1300	
SJ-1	8	6	92	-	-	1	1300	
SJ-2	8	6	96	-	-	0.5	14000	
SJ-3	8	6	96	-	-	-	700	
SJ-4	8	9	96	1	1	1	888-	<20
SJ-5	8	9	92	-	-	0.5	08	
SJ-5	8	6	98	1	-	9		
SC-1	8	6	92	-	-	0.5	230	
SC-1	8	6	92	1	1	8	-888	<20
TL-1	8	7	92	1	1	1.5	500	
TL-1	8	7	92	1	-	3.6	-888	<20
TL-2	8	8	92	1	1	0.5	230	
								Sheet 7 of 10
* Value of	-888 indica	ites limi	t of mea	surem	ent not	met (<) or exc	Value of -888 indicates limit of measurement not met (<) or exceeded (>). See FECSUB for measurement	surement
limit val	limit value (in MPN/100mL)	100mL)						

Station	Month	Day	Year	Rep	Split	Depth (m)	FecCoi (MPN/100 ml)*	FecSub
TL-3	8	8	98	1	1	0.5	80	
TL-4	8	8	95	1	1	0.5	0006	
T.L-4	8	8	95	-	-	13	-888	<20
TL-5	8	80	95	-	1	0.5	300	
PL-1	8	8	95	-	-	0.5	5000	
PL-2	80	8	95	1	1	0.5	-888	<20
A0-1	80	22	96	1	1	0.5	800	
A0-2	80	22	98	1	1	0.5	-888	<20
SJB-1	80	22	95	1	-	0.5	230	
SJB-1	80	22	98	1	1	14.5	230	
SJB-2		22	95	1	-	0.5	130	
SJB-3	8	22	95	1	1	0.5	24000	
SJB-3	8	22	98	1	1	12	-888	<20
SJB-4	8	22	92	٦	1	0.5	-888	<20
SJB-5	8	22	98	1	1	0.5	230	
SJB-5	8	22	92	1	1	11	230	
SA-1	8	22	95	1	-	0.5	80	
SA-1	8	22	98	1	1	12.5	230	
LC-1	8	25	92	1	1	0.5	-888	<20
1-5-1	8	25	92	1.	1	80	-888	<20
								Sheet 8 of 10
* Value of	f -888 indic	ates lin	nit of me	asuren	nent not	t met (<) or ex	Value of -888 indicates limit of measurement not met (<) or exceeded (>). See FECSUB for measurement	sasurement
limit val	limit value (in MPN/100mL)	1/100mL	-					

Station	Month	Day	Year	Rep	Split	Depth (m)	FecCol (MPN/100 ml)*	FecSub
PN-1	8	23	98	1	1	1.5	888-	> 160000
MP-1	80	23	98	1	-	1.5	500	
MP-1	œ	23	92	1	-	3	•	
MP-2	80	23	95	1	-	0.5	8000	
MP-2	80	23	98	1	1	3.5	1300	
SJ-1	80	21	98	1	-	1	800	
SJ-2	8	21	95	-	1	0.5	2400	
SJ-3	8	21	95	-	-	1	2400	
SJ-4	80	21	95	-	-	-	888-	<20
SJ-5	80	21	95	-	-	0.5	888-	<20
SJ-5	8	21	95	-	-	9	•	
SC-1	8	21	95	-	-	0.5	230	
SC-1	8	21	95	-	-	8	888-	<20
TL-1	8	22	95	-	1	1.5	. 40	
11-1	8	22	95	-	1	3.6	-888	<20
TL-2	8	24	98	-	1	0.5	230	
TL-3	8	24	92	-	1	9.0	0006	
TL-4	8	24	95	-	1	0.5	800	
TL-4	8	24	98	1	1	13	-888	<20
TL-5	80	24	96	1	1	9'0	270	
								Sheet 9 of 10
* Value o	f -888 indic	ates lim	nit of me	asuren	nent not	met (<) or exc	* Value of -888 indicates limit of measurement not met (<) or exceeded (>). See FECSUB for measurement	asurement

5			5		2		Station don long the state of t		
_	PL-1	8	24	8 24 95	-	1	0.5	8000	
	PL-2	8	24	24 95	-	-	0.5	2400	
									Sheet 10 of 10
<u>`</u>	/alue of	-888 indica	ates lim	it of me	asuren	nent not	met (<) or exc	* Value of -888 indicates limit of measurement not met (<) or exceeded (>). See FECSUB for measurement	asurement
=	mit valu	limit value (in MPN/100mL)	100mL	_					

Appendix C

Table C10 Fecal Colif	10 oliform E	numeratio	on Data	for Tribut	tary San	Table C10 Fecal Coliform Enumeration Data for Tributary Sampling Locations	tions	
Station	Month	Day	Year	Rep	Split	Depth (m)	FecCol (MPN/100 ml)*	FecSub
T-1	7	5	96	-	-		-888	> 160000
T-2	7	9	98	1	1		-888	> 160000
T-3	7	2	96	1	1		1600000	
T-4	7	9	96	1	1		1600000	
T-5	7	9	96	1	1		1600000	
1-6	7	S	96	1	1		1600000	
1-7	7	2	92	-	1		1600000	
T-8	7	2	96	1	1		-888	< 200
T-1	7	17	92	1	1		888-	>16000
1-2	7	11	98	1	1		888-	> 16000
T-3	7	11	96	1	1		-888	>16000
T-4	7	17	98	1	-		-888	> 16000
T-5	7	17	92	1	1		888-	>16000
1-6	7	17	96	1	1	•	-888	>16000
1-7	7	11	96	1	1		888-	> 16000
T-8	7	17	92	1	1	٠	230	
* Value o	f -888 indi	cates limit	of measure	ement not	met (<) or	<) papaeaxa u	Value of -888 indicates limit of measurement not met (<) or exceeded (>). See FECSUB for measurement	
limit va	limit value (in MPN/100mL)	1/100mL)						

## Appendix D Sediment-Water Flux Data

Table D1													
Sediment-Water Flux Data	ıt-Wate	r Flux	Data										
Station	Month	Day	Year	Rep	Split	Depth (m)	Temp (C)	SOC (g/m2/d)	NH4 (µg-at/m2/h	p (C)   SOC (g/m2/d)   NH4 (µg-at/m2/h   NO3NO2 (µg-at/m2/h)   NO2 (µg-at/m2/h)   PO4 (µg-at/m2/h)	NO2 (µg-at/m2/h)	PO4 (µg-at/m2/h)	Si (µg-at/m2/h)
SOS-1	8	10	96	1	1	1.5	31	1.32	413.14	0	0	90'62	362.26
SOC-2	8	10	92	-	1	1.7	30	1.16	13.05	43.05	-2.25	-38.68	0
SJC-3	8	11	92	-	-	11.6	29	1.43	106.03	0	0	0.88	283.2
SJS-4	8	11	98	-	-	3.9	30	1.33	78.15	0	1.3	2.37	125.17
SJW-5	8	12	92	1	1	1.7	31.4		-27.48	0	0	0	0
9-Mfs	8	12	96	-	1	1.7	31.4	1.23	-6.91	0	0	0	131.56
TL-7	8	14	98	-	1	1	31.8	1.21	160.06	0	0	6.7	253.43
SC-8	8	14	98	-	1	3.8	31.8	1.13	-42.97	-1.56	-1.42	1.51	172.59
PL-9	8	15	98	1	1	0.7	30.5	1.3	48.65	0	0	-1.39	533.46
PL-10	8	15	98	-	-	0.7	30.5	1.93	0	0	0	0	551.09

## Appendix E QA/QC Data for Laboratory Analyses

Table F1	F										
QA/Q	QA/QC Data for Laboratory Analyses	for La	borat	ory A	nalyse	S					
Value	Sample Month	Month	Day	Year	Rep	Split	Depth	Spkval	Samvai	Spkamt	Recov
NH3N	SA-1	9	26	92	1	1	12.5	0.44	0.22	0.2	110
NH3N	MP-1	9	27	98	1	1	1.5	0.497	0.249	0.2	124
NH3N	SJ-3	9	28	92	1	1	1	0.518	0.321	0.2	98.5
NH3N	LC-1	9	29	98	1	1	0.5	0.438	0.229	0.2	104.5
NH3N	T-1	7	2	92	1	1	666-	0.897	0.698	0.2	99.5
NH3N	SA-1	7	10	98	1	1	12.5	0.594	0.372	0.2	111
NH3N	SJ-1	7	11	98	1	1	1	0.248	0.053	0.2	97.5
NH3N	PL-2	7	12	98	2	1	0.5	0.209	0.016	0.2	96.5
NH3N	PN-1	7	13	92	2	1	1	0.376	0.178	0.2	66
NH3N	T-2	7	17	98	1	-	666-	0.427	0.202	0.2	112.5
NH3N	SJB-4	7	24	95	2	1	1.5	0.22	0.037	0.2	91.5
NH3N	PN-1	7	27	95	1	1	1	0.595	0.386	0.2	104.5
NH3N	666-	666-	-999	-999	-999	666-	666-	0.459	0.246	0.2	106.5
NH3N	LC-1	7	31	95	1	1	0.5	0.225	0	0.2	112.5
NH3N	SJB-3	8	7	95	-	1	11	0.464	0.242	0.2	111
NH3N	TL-2	80	8	92	-	1	0.5	0.441	0.259	0.2	91
NH3N	SJ-5	8	6	92	-	1	1	0.295	0.108	0.2	93.5
NH3N	T-3	8	16	92	-	-	-999	0.633	0.443	0.2	95
NH3N	SJ-4	8	21	92	-	-	1	0.751	0.488	0.2	131.5
NH3N	SA-1	8	22	92	-	-	11	0.307	0.054	0.2	126.5
										She	Sheet 1 of 6

Value	Sample Month	Month	Day	Year	Rep	Split	Depth	Spkval	Samval	Spkamt	Recov
NEHN	MP-1	80	23	95	-	-	1.5	1.06	0.897	0.2	91.5
NH3N	TL-2	8	24	95	-	-	0.5	0.578	0.351	0.2	113.5
NEHN	LC-1	8	28	95	-	-	0.5	0.764	0.412	0.2	176
NEHN	C-5	8	28	95	666-	666-	666-	0.554	0.28	0.2	137
NEHN	E-12	6	-	95	666-	666-	666-	0.89	0.65	0.2	120
NOON	T-8	7	5	95	-	-	666-	0.3	0.1	0.2	145
NOON	SJB-2	7	10	95	-	-	0.5	0.34	0	0.2	170
NO3N	SJ-4	7	=	95	-	-	1	0.41	0	0.4	102.5
NOON	TL-4	7	12	92	-	-	1.5	0.13	0	0.2	65
NO3N	MP-1	7	13	92	-	-	1.5	0.2	0	0.2	100
NO3N	_	7	13	92	-	-	-	0.13	0.01	0.2	09
NO3N	LC-1	7	13	92	-	-	0.5	0.1	0	0.2	20
NO3N	T-4	7	17	95	-	-	666-	0.73	0.59	0.2	70
NO3N	1-3	7	17	92	-	-	666-	0.65	0.52	0.2	65
NO3N	S	^	24	98	-	-	1	0.11	0	0.2	55
NO3N	TL-2	7	25	92	-	-	0.5	0.16	0	0.2	80
NO3N	SJ-1	7	26	95	-	-	1	0.21	0	0.2	105
NO3N	4-⊤	^	14	92	-	-	666-	0.67	0.51	0.2	80
NO3N	MP-2	7	27	92	1	1	0.5	0.25	0.04	0.2	105
NO3N	SJB-1	8	7	92	-	1	0.5	0.15	0	0.2	75
NO3N	TL-2	80	8	92	-	1	0.5	0.19	0	0.2	95
NO3N	SJ-1	8	6	92	-	1	2	0.16	0.01	0.2	75
										ls.	Sheet 2 of 6

_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	,	_	_			_
Recov	92	115	25	110	95	65	150	160	95	9.66	102.3	114.3	136.6	92	122.6	127.6	131.6	120	116	80.3	96	104	Sheet 3 of 6
Spkamt	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	She
Samval	0	0.3	0	0	0.01	0.01	1.2	0.5	9.0	0.307	0.318	0.403	0.321	0.37	0.472	0.707	0.362	2.76	0.952	0.265	0.255	0.698	
Spkval	0.19	0.53	0.05	0.22	0.2	0.14	1.5	0.82	0.79	909.0	0.625	0.746	0.731	0.646	0.84	1.09	0.757	3.12	1.3	0.506	0.543	1.01	
Depth	0.5	666-	0.5	1	1.5	0.5	666-	666-	666-	9.0	9	11	0.5	12	0.5	0.5	0.5	666-	666-	0.5	0.5	0.5	
Split	1	1	1	1	1	ı	666-	666-	666-	1	1	1	1	1	1	1	1	-	1	1	1	1	
Rep	1	1	1	1	1	1	666-	666-	666-	1	1	1	1	1	1	1	1	1	1	1	2	1	
Year	92	92	95	92	95	96	98	98	92	92	92	92	95	92	92	98	95	92	92	92	92	92	
Day	10	9	20	22	23	24	17	20.	1	17	17	18	18	18	24	24	24	26	27	7	7	14	
Month	8	80	80	8	8	8	8	8	6	7	7	7	7	7	7	7	7	7	7	8	8	8	
Sample Month	LC-1	T-3	SJ-2	SJB-2	MP-1	TL-2	C-4	D-8	E-10	A0-1	LC-1	SJB-5	SA-1	SA-1	PL-1	PL-2	TL-3	T-7	T-4	LC-1	LC-1	PL-1	
Value	NO3N	NO3N	NO3N	NO3N	NO3N	NO3N	NO3N	NOON	NO3N	TKN	TKN	TKN	TKN	TKN	TKN								

												_										_	_
Recov	98.6	112	100	102.3	91	93.3	99	94.6	109.3	130	104	121.6	142.8	116	108	124	124	144	107.2	180.4	128	124	Sheet 4 of 6
Spkamt	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	She
Samval	0.904	0.326	0.358	0.703	0.757	1.34	0.378	0.358	0.662	1.09	0.33	0.00	0.046	0.024	0.054	0.097	0.129	0.022	0.181	0.21	0.011	0.004	
Spkval	1.2	0.662	0.658	1.01	1.03	1.62	0.546	0.642	66'0	1.48	0.642	0.04	0.082	0.053	0.081	0.128	0.16	0.058	0.207	0.255	0.043	0.035	
Depth	0.5	1	3.6	1	666-	666-	16	11	0.5	0.5	17	166	0.5	0.5	1.5	0.5	1	12	1.5	-999	-999	0.5	
Split	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	666-	666-	1	
Rep	1	2	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	-999	-999	1	
Year	96	96	96	98	98	98	98	. 36	98	96	96	96	98	98	98	98	98	98	96	92	98	95	
Day	14	15	15	18	21	31	7	4	8	11	11	56	10	11	56	25	26	7	23	21	21	24	
Month	8	8	8	8	8	8	6	6	6	6	6	9	7	7	7	7	7	8	8	8	8	7	
Sample	PL-2	SJB-4	TL-1	SJ-5	T-3	T-3	A0-2	SA-1	SJ-2	PL-2	A0-1	A0-2	SJB-1	TL-3	TL-1	TL-3	SJ-3	SA-1	MP-1	C-4	D-7	A0-1	
Value	TKN	TKN	TKN	TKN	TKN	TKN	TKN	TKN	TKN	TKN	TKN	TP	TP	TP	TP	TP	TP	ΤP	ΤP	ТР	TP	TDP	

Recov	120	108	120	107.2	120	112	126.8	48	132	144	108	136	120	124	120	138	124	119.2	104	140	128	96	Sheet 5 of 6
Spkamt	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	She
Samval	0.173	0.02	0.026	0.002	800.0	0.074	0.019	0.025	0.104	0.056	0.062	0.124	0.028	0.016	0.007	0.028	0	0.101	0.004	0.119	0.04	0.012	
Spkval	0.203	0.047	0.056	0.029	0.038	0.102	0.051	0.037	0.137	0.092	0.089	0.158	0.058	0.047	0.037	0.063	0.031	0.131	0.03	0.154	0.072	0.036	
Depth	1	9.0	2	666-	0.5	1	1	0.5	666-	666-	1.5	1	0.5	4	9.0	12	18	7	9	1.5	9.0	0.5	
Split	1	1	1	-	-	-	-	-	-999	666-	1	1	-	1	-	1	1	-	1	1	1	-	
Rep	1	1	1	1	1	1	1	1	666-	666-	1	1	1	1	1	1	1	1	1	1	1	1	
Year	96	36	96	96	96	96	96	36	92	98	36	36	36	36	92	96	98	36	36	98	<u> </u>	98	
Day	27	8	6	17	10	21	23	24	19	1	56	11	12	13	24	26	7	6	10	23	24	26	
Month	7	8	8	8	8	8	8	8	8	6	9	7	7	7	7	9	8	8	8	8	8	9	
Sample Month	PN-1	TL-2	SJ-1	T-3	LC-1	SJ-4	SJB-2	TL-2	C-4	E-12	MP-1	SJ-4	TL-2	LC-1	SA-1	SJB-3	A0-1	SJ-1	LC-1	MP-1	TL-2	SJB-3	
Value	TDP	TIP	DIP																				

6	Sheet 6 of 6	Sh										
_	124	0.025	0.004	0.035	11	-	1	98	22	8	SA-1	DIP
	104	0.025	0.002	0.028	0.5	1	2	96	10	8	LC-1	DIP
_	108	0.025	0.008	0.035	0.5	1	1	98	7	8	SA-1	DIP
	128	0.025	0.012	0.044	3	1	1	96	22	7	MP-1	DIP
	116	0.025	0.028	0.057	666-	1	1	96	11	4	1-2	dIO
	128	0.025	0.003	0.035	0.5	1	1	96	24	4	SJB-1	DIP
	Recov	Spkamt	Samval	Spkval	Depth	Split	Rep	Year	Day	Month	Sample	Value

# **Appendix F Glossary of Variable Names**

<u>V</u> ariable	Description	Units
CHLA	Chlorophyll A	ug/L
DAY	Day	day(1-31)
DEPTH	Depth	m
DIC	Dissolved Inorganic Carbon	mg/L
DIP	Dissolved Inorganic Phosphorus	mg/L
DISCHARGE	Tributary Discharge	m³/sec
DO	Dissolved Oxygen	mg/L
DOC	Dissolved Organic Carbon	mg/L
DOSAT	Dissolved Oxygen, Saturation	percent
DTKN	Total Dissolved Kjeldahl Nitrogen	mg/L
EVENT	Event Counter	
FECCOL	Fecal Coliform	MPN/100 mL
FECSUB	Fecal Coliform Limit of	MPN/100 mL
DICE	Measurement	
INCUB	Type of Incubation	
LATDEG	Latitude	degrees
LATDIR	Latitude Direction (N=North)	·
LATMIN	Latitude	minutes
LONDEG	Longitude	degrees
LONDIR LONMIN	Longitude direction (W=West) Longitude	
MONTH	Month	minutes
NH3N	Ammonia Nitrogen	mg/L
NH4	Ammonia Nitrogen Flux	$\mu$ g-at/m <sup>2</sup> per hour
NO2	Nitrite Nitrogen Flux	$\mu$ g-at/m <sup>2</sup> per hour
NO3N	Nitrate Nitrogen	mg/L
NO3NO2	Nitrate-Nitrite-Nitrogen Flux	$\mu$ g-at/m <sup>2</sup> per hour
PH	pН	pH units
PO4	Ortho Phosphate Flux	$\mu$ g-at/m <sup>2</sup> per hour
RECOV	Percent Recovery	, ,
REP	Sample Replicate	
ROUND	Sampling Round	
SALINITY	Salinity	ppt
SAMVOL	Pre-spike Sample Concentration	
SECCHI	Secchi Disk Transparency	m
SI	Silica Flux	$\mu$ g-at/m <sup>2</sup> per hour
SOC	Sediment Oxygen Consumption Rate	$\mu$ g-at/m <sup>2</sup> per hour
SPCOND	Specific Conductivity	uS
SPKAMT	Effective Spike Concentration	
SPKVAL	Concentration of Sample	
SPLIT	Laboratory Replicate Number	
STATION	Station Name	
SULFIDE	Sulfide	ppt
TC	Total Carbon	mg/L
TDC	Total Dissolved Carbon	mg/L

TDP	Total Dissolved Phosphorus	mg/L
TEMP	Water Temperature	degrees C
TIC	Total Inorganic Carbon	mg/L
TIME	Time of Day	military time
TKN	Total Kjeldahl Nitrogen	mg/L
TOC	Total Organic Carbon	mg/L
TP	Total Phosphorus	mg/L
TSS	Total Suspended Solids	mg/L
TURB	Turbidity, Nephalometric	NTU
TYPE	Type of Sample Observation	
	(1=routine; 2=storm)	
VSS	Volatile Suspended Solids	mg/L
YEAR	Year	

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